670/673/675

LED TV
Installation manual

imagine the possibilities

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To receive more complete service, please register your product at

www.samsung.com/register

Model _____ Serial No. _____

SAMSUNG

Figures and illustrations in this User Manual are provided for reference only and may differ from the actual product appearance. Product design and specifications may be changed without notice.

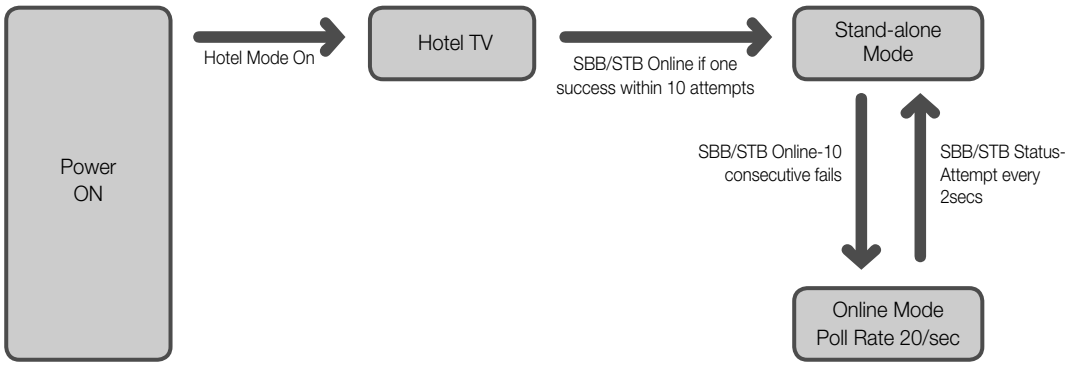
Instruction

This TV is provided with interactive functionality through a set-back box (SBB/STB) connected to the TV, and with other TVs in a computer controlled system for hotels and other hospitality businesses.
Interactive : When the TV is powered-up initially, it sends a command to identify the SBB/STB. If identified, the TV switches to ONLINE mode and full control is through the SBB/STB.
If the TV is in ONLINE mode, it stops receiving IR (Samsung remote) commands and acts according to the interface protocol.
Stand-Alone: If SBB/STB is not identified, the TV should be switched to STAND-ALONE mode with restricted operations.

Operational Modes

When this TV (in Hotel mode) is operated with a SBB/STB, it is in one of two states:

- ONLINE or STAND-ALONE. In the STAND-ALONE state, the TV will act as a Hotel TV, but without active communication. This prevents guests from trying to cheat the system by disconnecting the SBB/STB.



To set the details for Stand-alone or interactive mode, refer to pages 19-24(Setting the hotel option data : Stand-alone mode and Interactive mode)

- Some operations may be restricted to prevents guests from "cheating" the TV system.
- No main menu (Interactive mode) or Channel Menu, Plug & Play in Main Menu (Stand-Alone mode)
- Limited Volume and Panel key lock or unlock

Still image warning

Avoid displaying still images (like jpeg picture files) or still image elements (like TV Programme such as TV Programmeme logos, the panorama or 4:3 image format, stock or news bars at the bottom of the screen etc.) on the screen. Constantly displaying still pictures can cause uneven wear of the screen phosphor, which will affect the image quality. To reduce risk of this effect, please follow the recommendations below:

- Avoid displaying the same TV channel for long periods.
- Always try do display any image over the full screen, use the TV set picture format menu for the best possible match.
- Reduce the brightness and contrast values to the minimum require values to achieve the desired picture quality. Exceeding these values may speed up the burnout process.
- Frequently use all TV features designed to reduce image retention and screen burnout, refer to the appropriate user manual section for more details.

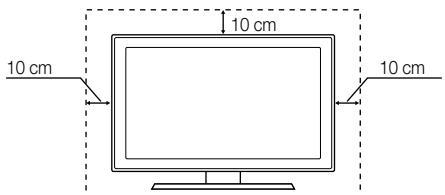
Securing the Installation Space

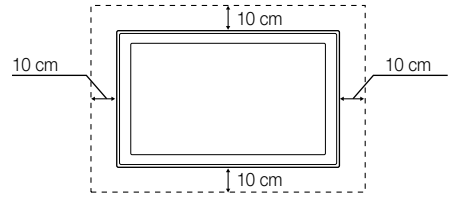
Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.
Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.

✎ When using a stand or wall-mount, use parts provided by Samsung Electronics only.
  - If you use parts provided by other manufacturers, it may result in a problem with the product or an injury due to the product falling.

✎ The appearance may differ depending on the product.

Installation with a stand.	Installation with a wall-mount.





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Correct Disposal of This Product (Waste Electrical & Electronic Equipment)
(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Correct disposal of batteries in this product
(Applicable in the European Union and other European countries with separate battery return systems)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment. To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

Accessories

✎ Please make sure the following items are included with your LED TV. If any items are missing, contact your dealer.

✎ The items' colours and shapes may vary depending on the model.

- Remote Control & Batteries (AAA x 2)
- Power Cord / Data Cable
- Owner's Instructions / Safety Guide (Not available in all locations)
- RF Signal Gender (DIN,F Type)
- Quick Setup Guide
- Guide Stand
- Screws
- Stand
- Holder-Ring (2EA)

✎ The stand and stand screws may not be included depending on the model.

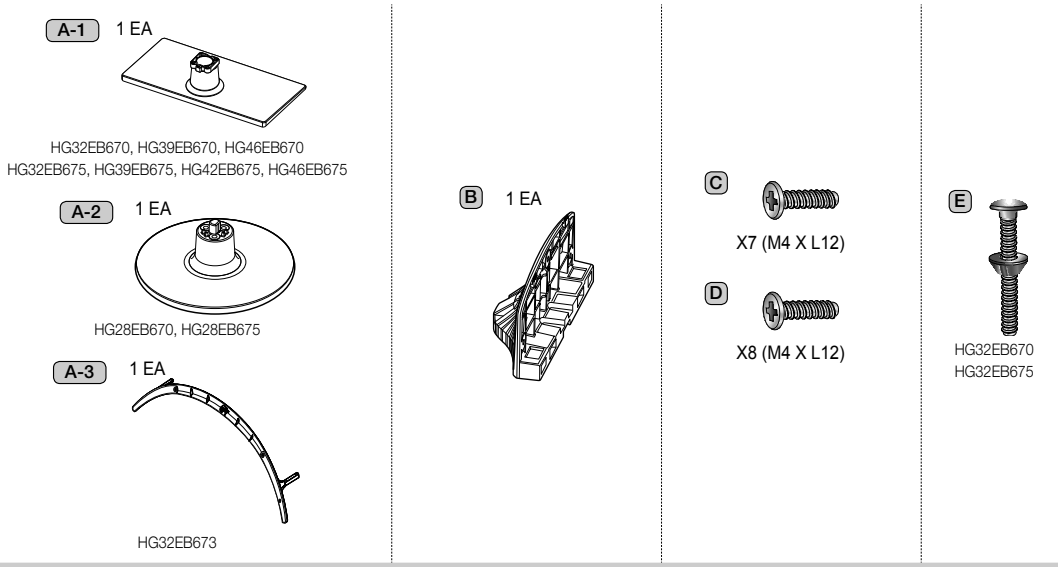
✎ The Data Cable may not be included depending on the SI Vendor.

Installing the LED TV Stand

The 32" and larger LED TVs have swivel stands. You can set these stands so that the TV swivels 20 degrees left and right, 60 degrees left and right, or 90 degrees left and right. See page 6. The 28" LED TVs do not have swivel stands.

Stand Components

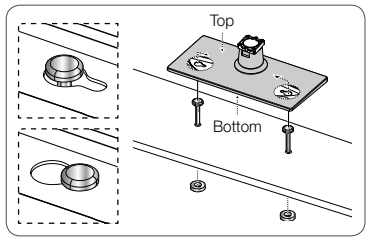
When installing the stand, use the provided components and parts.



Stand	Guide Stand	Screws	Bolt + Nut

❑ Hotel Mount Kit

Short Bolt (2EA)	Long Bolt (2EA)	Nut (2EA)	Washer (2EA)	Bolt + Nut



Mounting the stand to a flat surface such as a dresser top, desk top, or entertainment center.

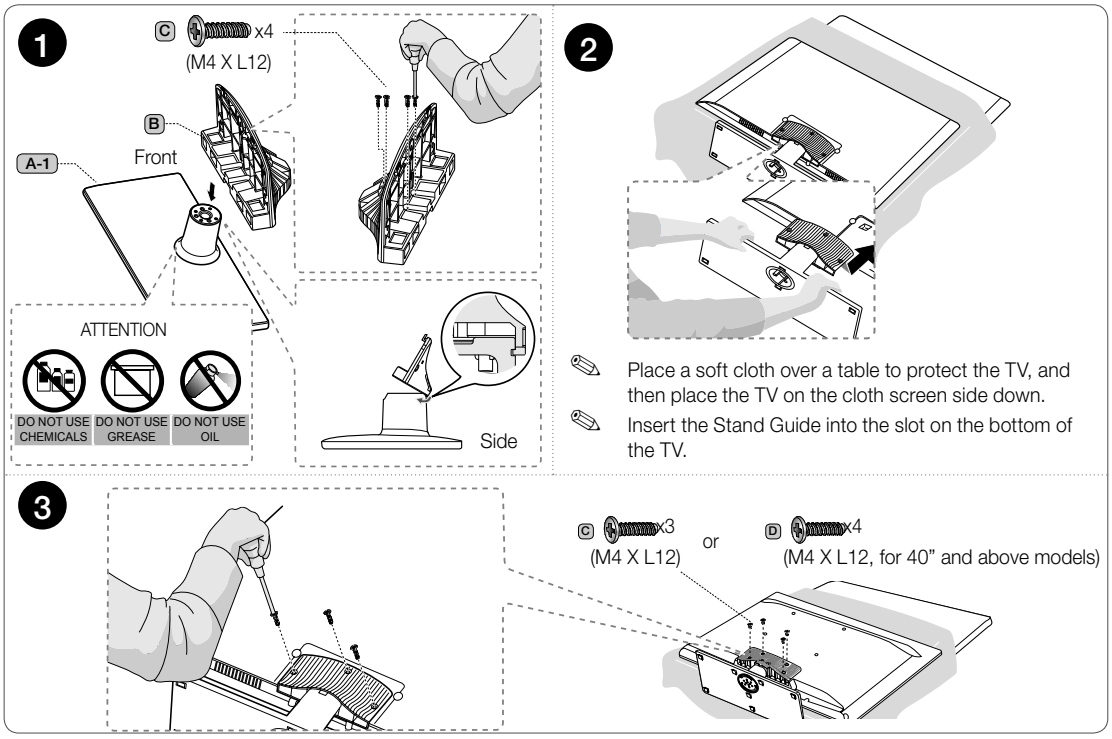
✎ Make sure to distinguish between the front and back of the Stand and Stand Guide when assembling them.

✎ Make sure that at least two people lift and move the LED TV.

✎ When connecting the stand, lay the product down on a soft surface, with the screen facing, and then fasten the screws.

✎ The number of screws may differ depending on the model.

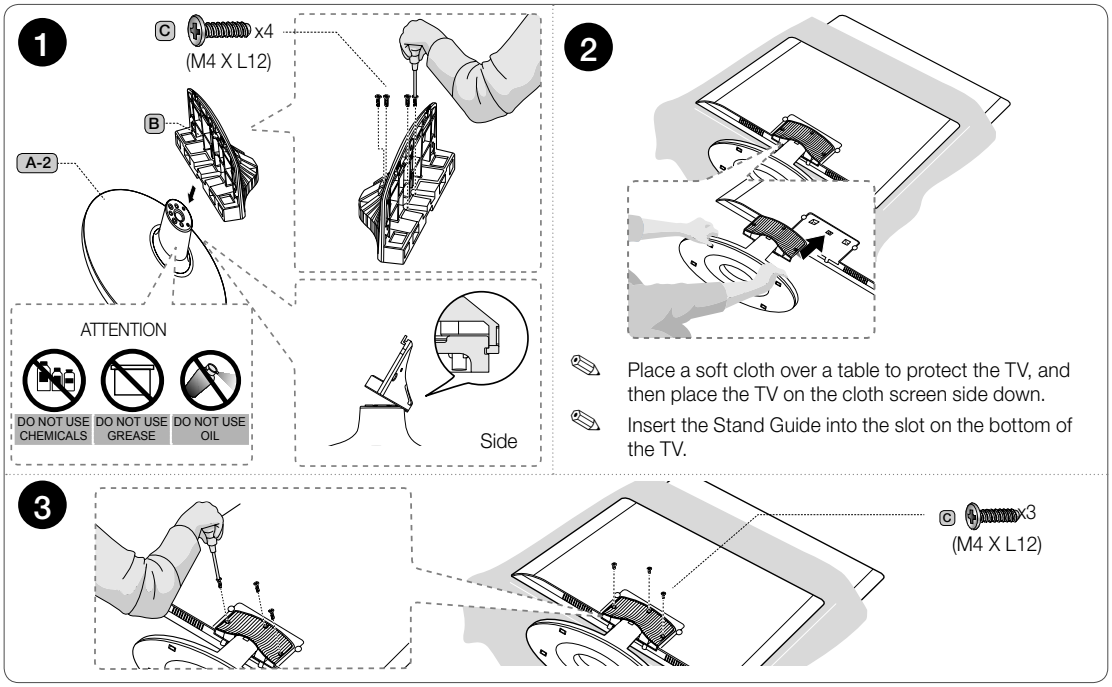
HG32EB670, HG32EB675, HG39EB670, HG39EB675, HG42EB675, HG46EB670, HG46EB675



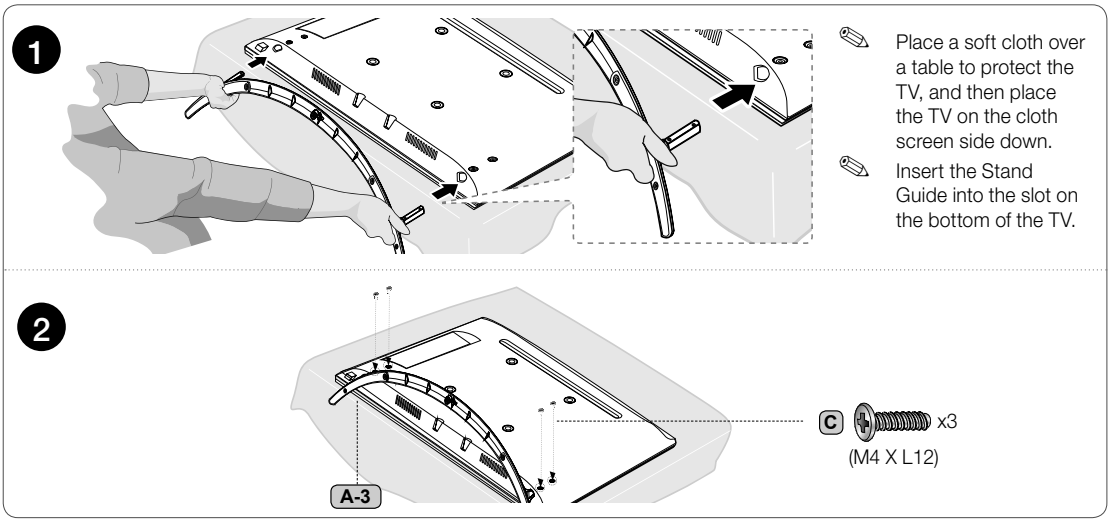
✎ Make sure to distinguish between the front and back of the Stand and Stand Guide when assembling them.

✎ Make sure that at least two people lift and move the TV.

HG28EB670, HG28EB675



HG28EB670, HG28EB675



When installing the stand, you should add a rotary valve (round metal) which have a swivel function and fix it using two screws on the stand bracket. When you want to use the swivel function, you should fix the stand as the instruction.

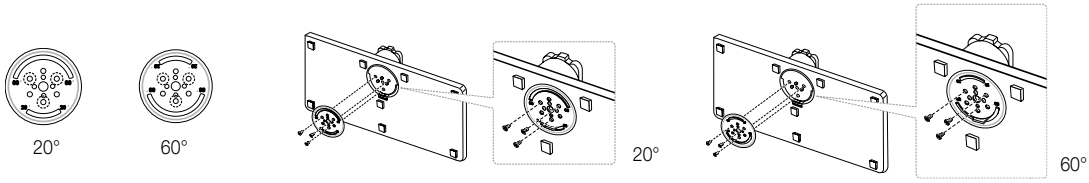
WARNING: To prevent injury, this apparatus must be securely attached to the floor/table in accordance with the installation instructions.

Assembling the swivel (32 inch TVs or larger)

The TV stand more than 32inch supports the swivel function. The swivel angle support all of 20°, 60° and 90° and you can change the swivel angle by using BRACKET HOLDER SWIVEL.

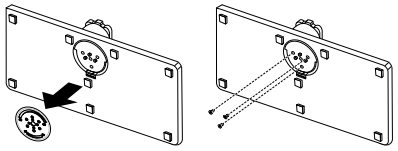
20° ~ 60° swivel

If you assemble the wedge on the bottom of the stand to the hole of BRACKET HOLDER SWIVEL where 20° or 60° is marked, the swivel angle becomes each 20° ~ 60° in the left and right side.

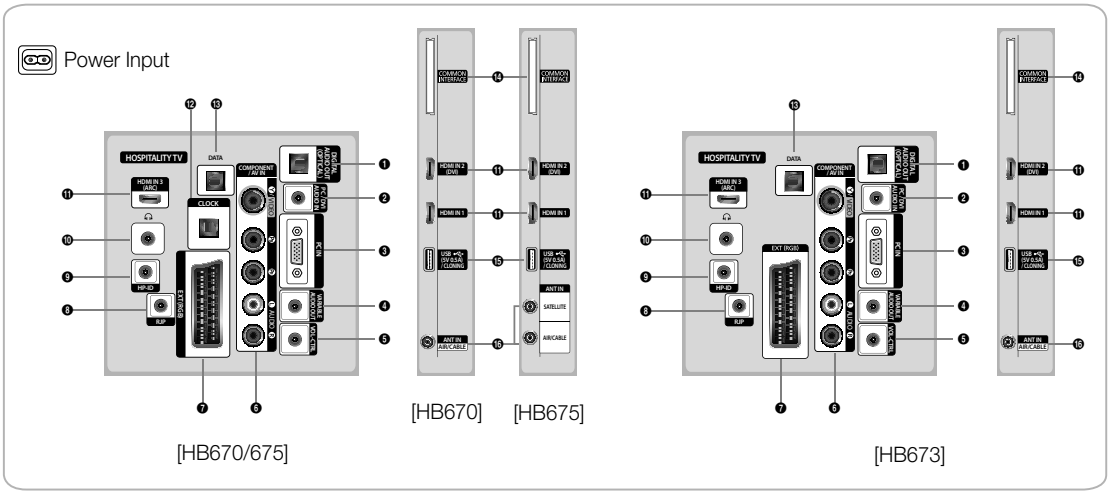


90° swivel

If you assemble only screws after you remove BRACKET HOLDER SWIVEL, the swivel angle becomes each 90° in the left and right side.



Viewing the Connection Panel



✎ Whenever you connect an external device to your TV, make sure that power on the unit is turned off.

✎ When connecting an external device, match the colour of the connection terminal to the cable.

❶ **DIGITAL AUDIO OUT (OPTICAL)**: Connects to a Digital Audio component.

❷ **PC/DVI AUDIO IN**: Connect to the audio output jack on your PC.

❸ **PC IN**: Connect to the video output jack on your PC.

❹ **VARIABLE AUDIO OUT**: Used for the audio output to the Bathroom speaker. Connect the Bathroom Wall Box and the Variable port.

❺ **VOL-CTRL**: Used to control the volume of the Bathroom speaker. Connect the Bathroom Wall Box and the VOL-CTRL port.

❻ **COMPONENT / AV IN**

- Connects the Component video / audio.
- Connect the component video cables (optional) to the component jacks ("P_R", "P_B", "Y") at the back of your TV and the other ends to the corresponding component video out jacks on the DVD.
- If you wish to connect both the Set-Top Box and the DVD player, you should connect the Set-Top Box to the DVD Player and connect the DVD Player to the component jacks ("P_R", "P_B", "Y") on your TV.
- The P_R, P_B and Y jacks on your component devices (DVD) are sometimes labeled Y, B-Y and R-Y or Y, Cb and Cr.
- Connect the RCA audio cables (optional) to [R - AUDIO - L] at the back of the TV set and the other ends to the corresponding audio out jacks on the DVD Player.

❼ EXT (RGB)

Connector	Input			Output
	Video	Audio (L/R)	RGB	Video + Audio (L/R)
EXT	0	0	0	Only TV or DTV output is available

✎ Inputs or outputs for external devices, such as a video game device or VCR, DVD or video disc player.

❽ RJP: This port is an RJP (Remote Jack Pack) communication port that enables connecting different devices to additional modules to improve the convenience of using devices.

❾ HP-ID: Connect the cable to the HP-ID and Headphone Jack simultaneously and connect it to a separate Headphone Box. See page 15. When connecting headphones to a Headphone Box, it works the same as the Headphone function.

❿ HEADPHONE JACK

– The headphones can be connected to the headphone jack on your TV. While the headphones are connected, the sound from the built-in speakers is disabled.

⓫ HDMI IN 1, 2 (DVI), 3 (ARC): Connects to the HDMI jack of a device with HDMI output.

✎ No sound connection is needed for an HDMI to HDMI connection.

✎ Use the **HDMI IN 2 (DVI)** jack for a DVI connection to an external device. Use a DVI to HDMI cable or DVI-HDMI adapter (DVI to HDMI) for video and the **PC/DVI AUDIO IN** jacks for audio.

Display Modes

Both screen position and size will vary depending on the type of PC monitor and its resolution.
The resolutions in the table are recommended settings. The supported resolutions may differ depending on the model.

✎ Optimal resolution is 1366 X 768 @ 60Hz. (HD Model)

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	720 x 400	31,469	70,087	28,322	-/+
MAC	640 x 480	35,000	66,667	30,240	-/-
	832 x 624	49,726	74,551	57,284	-/-
	1152 x 870	68.681	75.062	100.000	-/-
VESA DMT	640 x 480	31,469	59,940	25,175	-/-
	640 x 480	37.861	72,809	31,500	-/-
	640 x 480	37.500	75.000	31,500	-/-
	800 x 600	37,879	60,317	40,000	+/+
	800 x 600	48,077	72,188	50,000	+/+
	800 x 600	46.875	75.000	49.500	+/+
	1024 x 768	48,363	60,004	65,000	-/-
	1024 x 768	56,476	70,069	75,000	-/-
	1024 x 768	60,023	75,029	78,750	+/+
	1152 x 864	67.500	75.000	108.000	+/+
	1280 x 720	45,000	60,000	74,250	+/+
	1280 x 800	49.702	59.810	83.500	-/+
	1280 x 1024	63.981	60.020	108.000	+/+
	1280 x 1024	79.976	75.025	135.000	+/+
	1366 x 768	47,712	59.790	85.500	+/+

✎ Optimal resolution is 1920 X 1080 @ 60 Hz. (FHD Model)

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	720 x 400	31,469	70,087	28,322	-/+
MAC	640 x 480	35,000	66,667	30,240	-/-
	832 x 624	49,726	74,551	57,284	-/-
	1152 x 870	68,681	75,062	100,000	-/-
VESA CVT	720 x 576	35,910	59,950	32,750	-/+
	1152 x 864	53,783	59,959	81,750	-/+
	1280 x 720	56,456	74,777	95,750	-/+
	1280 x 960	75,231	74,857	130,000	-/+
VESA DMT	640 x 480	31,469	59,940	25,175	-/-
	640 x 480	37,861	72,809	31,500	-/-
	640 x 480	37,500	75,000	31,500	-/-
	800 x 600	37,879	60,317	40,000	+/+
	800 x 600	48,077	72,188	50,000	+/+
	800 x 600	46,875	75,000	49,500	+/+
	1024 x 768	48,363	60,004	65,000	-/-
	1024 x 768	56,476	70,069	75,000	-/-
	1024 x 768	60,023	75,029	78,750	+/+
	1152 x 864	67,500	75,000	108,000	+/+
	1280 x 1024	63,981	60,020	108,000	+/+
	1280 x 1024	79,976	75,025	135,000	+/+
	1280 x 720	45,000	60,000	74,250	+/+
	1280 x 800	49,702	59,810	83,500	-/+
	1280 x 800	62,795	74,934	106,500	-/+
	1280 x 960	60,000	60,000	108,000	+/+
	1360 x 768	47,712	60,015	85,500	+/+
	1440 x 900	55,935	59,887	106,500	-/+
	1440 x 900	70,635	74,984	136,750	-/+
	1680 x 1050	65,290	59,954	146,250	-/+
VESA GTF	1280 x 720	52,500	70,000	89,040	-/+
	1280 x 1024	74,620	70,000	128,943	-/-
VESA DMT / DTV CEA	1920 x 1080p	67,500	60,000	148,500	+/+

✎ When using an HDMI/DVI cable connection, you must use the **HDMI IN 2 (DVI)** jack.

✎ Interlace mode is not supported.

✎ The set might operate abnormally if a non-standard video format is selected.

✎ Separate and Composite modes are supported. SOG is not supported.

⓬ **CLOCK**: Set the time after connecting the cable of the External Clock to Clock jack. You can use the External Clock Display function.

⓭ **DATA**

- Used to support data communication between the TV and the SBB.
- The TV jack type is RJ-12.

⓮ **COMMON INTERFACE**

⓯ **USB / CLONING**

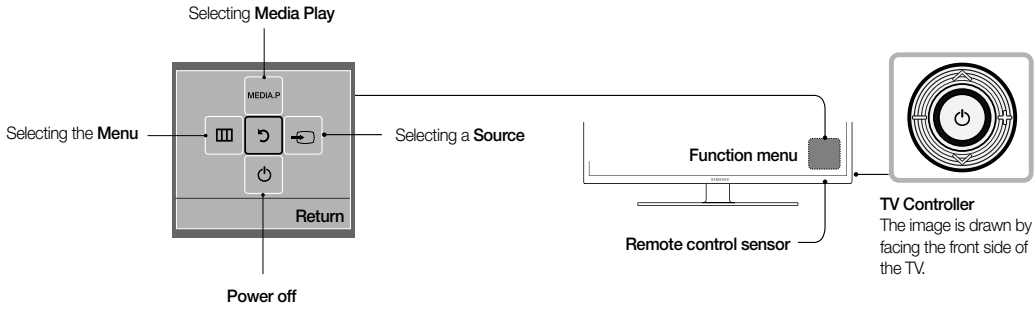
- Connector for software upgrades and Media Play, etc.
- Service connection.

⓰ **ANT IN**: To view television channels correctly, a signal must be received by the set from one of the following sources. An outdoor antenna / a cable television network / a satellite network.

✎ **For Norway** & **Sweden**: Equipment which is connected to protective earth through a network plug and/or through other equipment connected to the earth, and connected to a cable network, may result in fire. To prevent this from happening, a galvanic isolator is also installed between the equipment and the cable network when connecting the equipment to the cable network.

Using the TV's Controller

The TV Controller, which is a small joystick like button at the right back of the TV, lets you control the TV without the remote control.



✎ The product colour and shape may vary depending on the model.

✎ Exits the menu when pressing the controller for longer than 1 second.

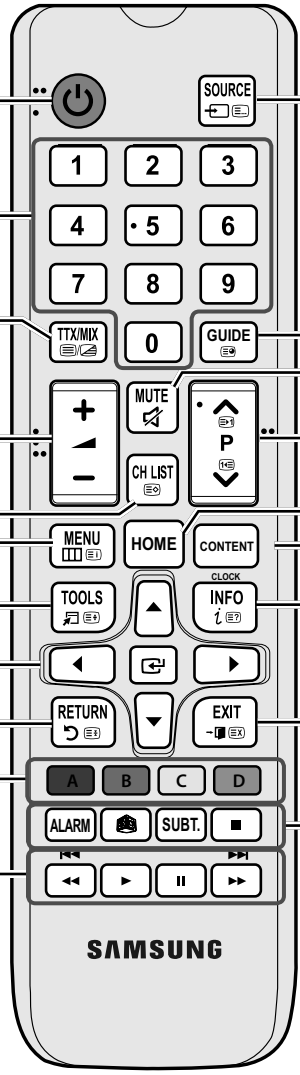
✎ When selecting the function by moving the controller in the up/down/left/ right directions, be sure not to press the controller. If you press it first, you cannot move it in the up/down/left/right directions.

Standby mode

Your TV enters Standby mode when you turn it off and continues to consume a small amount of electric power. To be safe and to decrease power consumption, do not leave your TV in standby mode for long periods of time (when you are away on vacation, for example). It is best to unplug the power cord.

Viewing the Remote Control

✎ This is a special remote control for visually impaired persons and has Braille points on the Power, Channel and Volume buttons.



Turns the TV on and off.

Directly select channels

Alternately selects Teletext, Double or Mix.

Adjust the volume.

Display the channel list on the screen.

Display the main on-screen menu.

Quickly select frequently used functions.

Select on-screen menu items and change menu values.

Return to the previous menu.

Buttons in the **Channel list, Contents Home** menu, etc.

Enter the hour you want the TV to turn on.

Use these buttons in **Contents Home**.

Display and select available video sources.

Display the Electronic Programmeme Guide (EPG)

Cut off the sound temporarily.

Change channels.

Switch to the HOME screen.

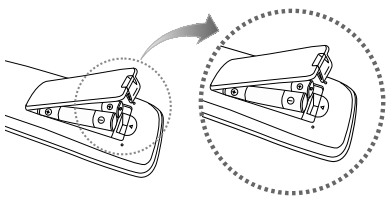
View **Contents Home**.

Press to display information on the TV screen.
CLOCK: When you press the **INFO** key in standby mode, the TV screen will display the time.

Exit the menu.

ALARM: Enter the hour you want the TV to turn on.
3D: Turns 3D image on or off. (Not available)
SUBT.: Displays digital subtitles.

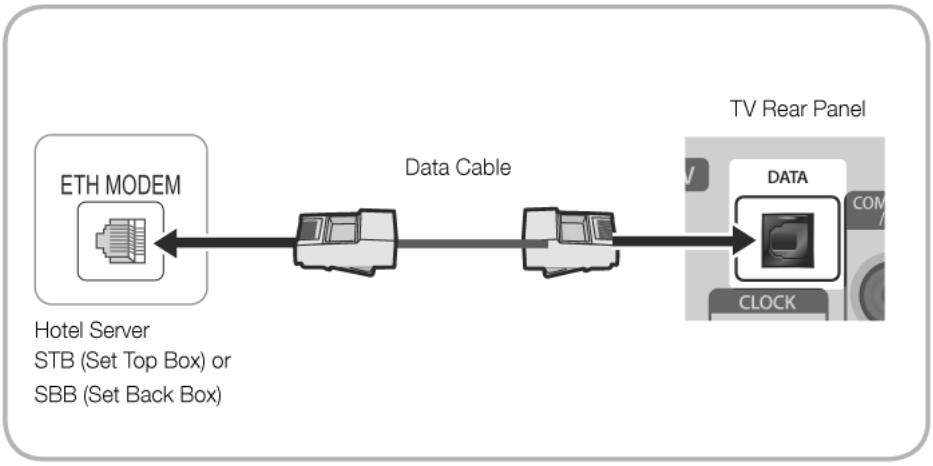
Installing the batteries (Battery size: AAA)



✎ **NOTE**

- Use the remote control within 23 feet of the TV.
- Bright light may affect the performance of the remote control. Avoid using nearby special fluorescent light or neon signs.
- The colour and shape may vary depending on the model.
- The 'HOME' and '3D' remote control buttons are not supported. When you press these button, the TV will not respond.

Connecting the TV with an SBB

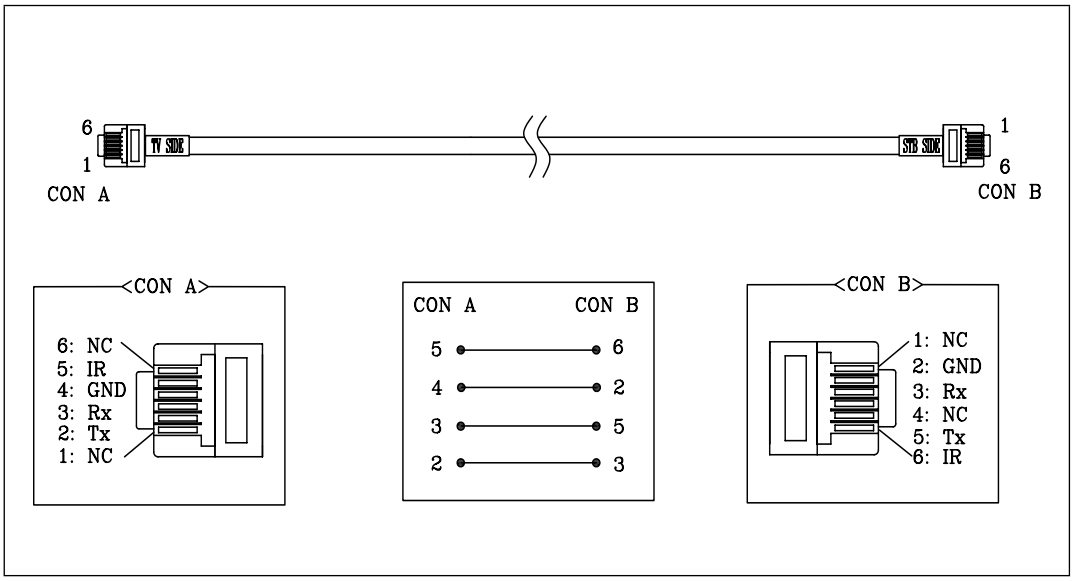


1. Connect the **DATA** jack of the TV to the [ETH MODEM] jack of the STB (SBB) with the Data cable.

✎ Use data communication.

List of Vendors and Compatible Data Cables Supplied with the TV

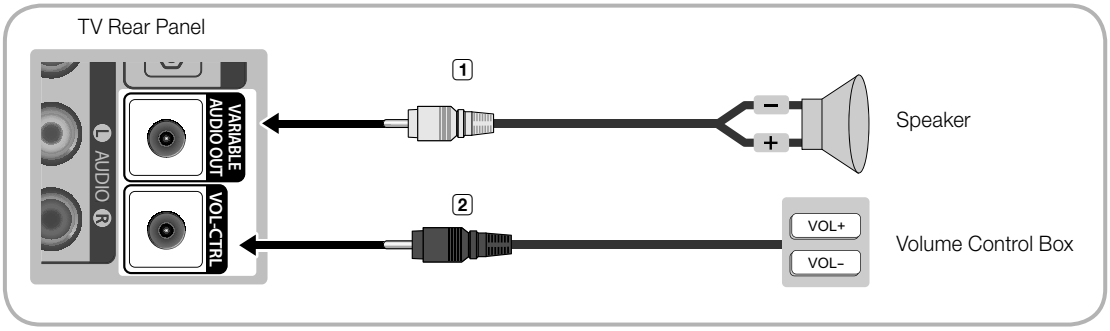
- Confirm you are using the correct data cable for your vendor. Refer to the code label on the data cables.



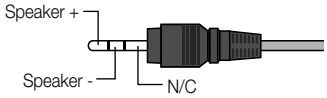
Connecting the Bathroom Speakers

You can connect the Bathroom Speakers in the following way.

Connecting through the Variable Output (available without an external amplifier)



1. Connect the **VARIABLE AUDIO OUT** port of the TV to the Bathroom Wall Speakers of the hotel.

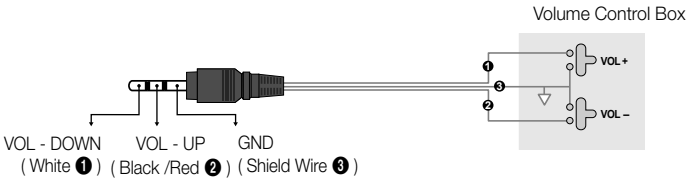


2. Connect the **VOL-CTRL** jack of the TV to the Volume Control Box Switch port on the Bathroom Wall of the hotel.

✎ The maximum speaker output is 4W, 8Ω.

- Installing the Volume Control
  - If you configure the Volume Control Box as shown in the figure, you can control the volume of the bathroom speakers.
  - The jack that is connected from the Volume Control Box to the TV is a 3.5mm normal Phone jack.
  - The Volume Control Box switch consists of a Tact switch.
    ✎ Setting the Sub AMP Mode
  - **0**: Turns the Sub AMP function off (PWM off).
  - **1**: Determines the Sub volume according to the main volume control. That is, the sub volume is determined according to the Power On Volume, the Min Volume, and the Max Volume values of Hotel Mode.
  - **2**: Determines the volume according to the bathroom control panel setting.

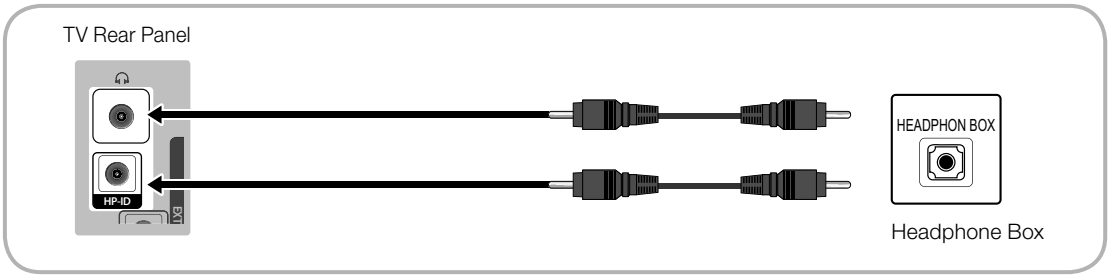
- Variable Output Port Specifications
  - **Speaker Wire**: Use a speaker cable no longer than 82 feet (25m).

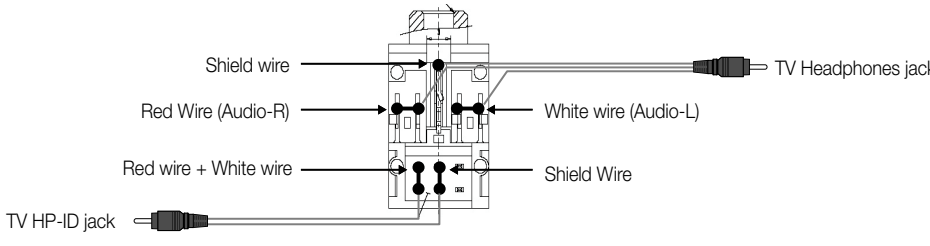


HP-ID

An additionally created Headphone Box can be installed on a bed or business desk so that users can use it conveniently. The installation procedures are described below.

- Detailed Drawing of the Headphone Box.

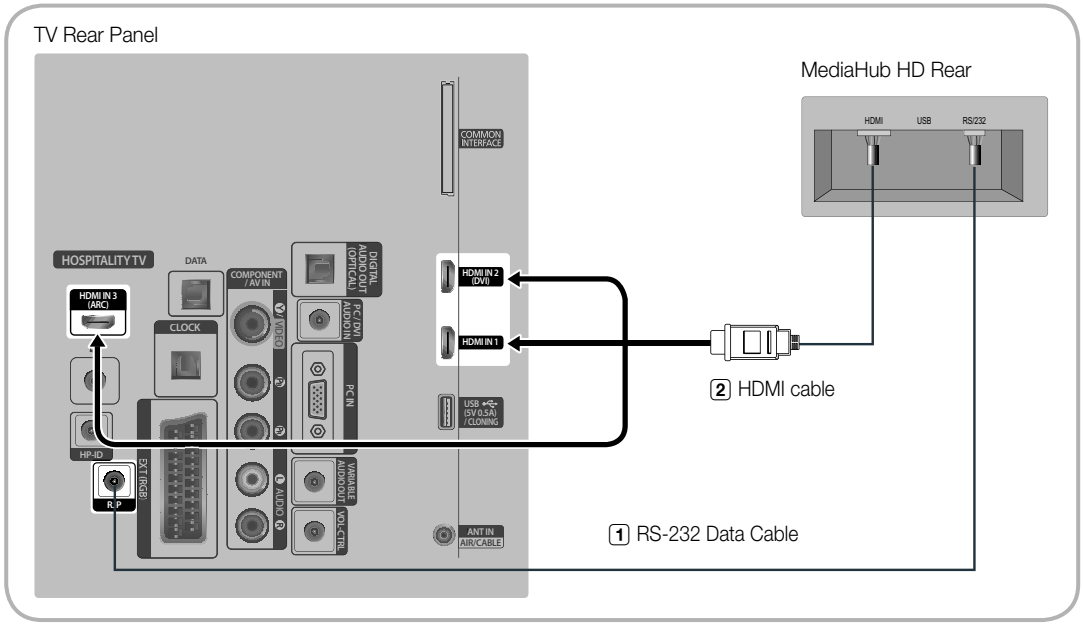




Connecting the MediaHub HD

Any external source connected to the MediaHub HD can be output to the hotel desk.

✎ The colour and shape may vary depending on the model.



1. Connect the **RJP** port of the TV and the RS/232 port of the MediaHub HD.

2. Connect the **HDMI IN** port of the TV and the HDMI port of the MediaHub HD.

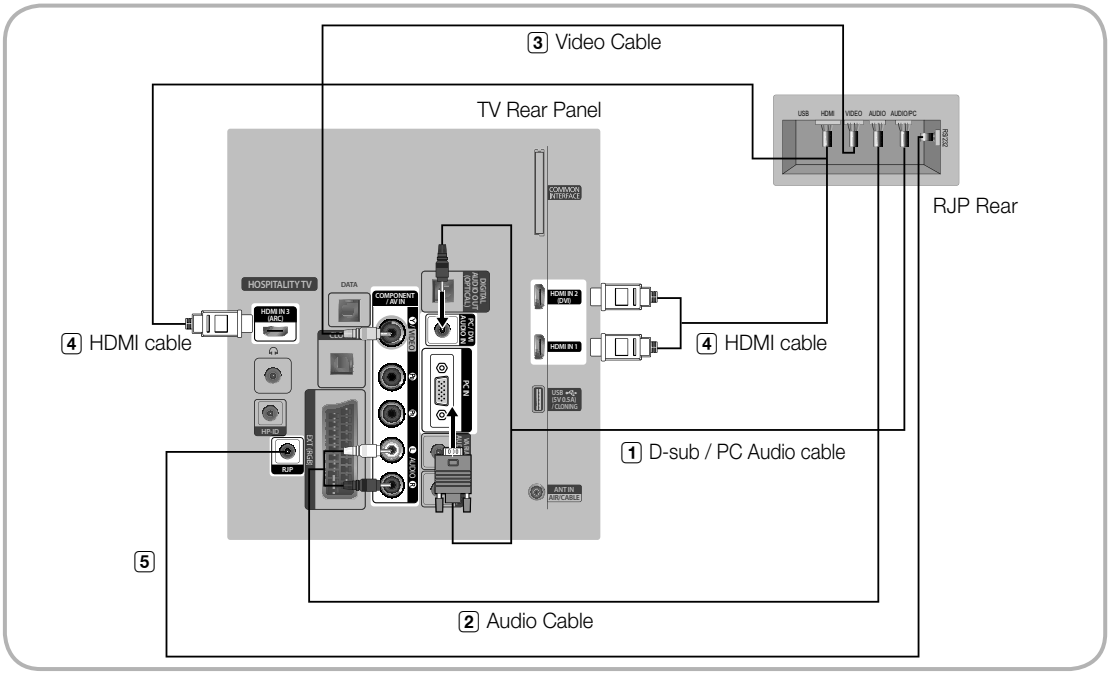
- MediaHub HD
  - The MediaHub HD is a hardware module that has different Audio Video inputs (A/V, Audio, PC, HDMI and USB) and corresponding outputs. The corresponding output sources are connected from the MediaHub to TV. The MediaHub communicates with the TV via RS232. The Hot Plug & Play is a function allows hotel guests to connect an external source to the MediaHub. The MediaHub communicates with the TV by sending messages about Active/Inactive sources. The TV will switch to the Active external source.
  - You have to connect the HDMI of the MediaHub to the **HDMI IN** port of the TV.
  - When the TV is on, connect the TV and the RJP within 10 seconds.

- Special features
  - PIP
  - Auto Detection

Connecting the RJP (Remote Jack Pack)

Any external source connected to the RJP can be output to the hotel desk.

✎ The colour and shape may vary depending on the model.



1. Connect the **PC IN / PC/DVI AUDIO IN** port of the TV to the PC/AUDIO port of the RJP.
2. Connect the **AV IN [VIDEO]/[L-AUDIO-R]** port of the TV to the VIDEO port of the RJP.
3. Connect the **AV IN [VIDEO]** port of the TV to the VIDEO port of the RJP.
4. Connect the **HDMI IN** port of the TV and the HDMI port of the RJP.
5. Connect the **RJP** port of the TV and the RS/232 port of the RJP.

   ✎ The RJP (Remote Jack Pack) compatible with this Samsung TV is TeleAdapt TA-7610, TA-7650 (HD) and TA-7660 (HD Plus).

- **RJP (Remote Jack Pack)**: RJP stands for Remote Jack Pack. The RJP is a hardware module that has different Audio Video inputs (A/V, Audio, PC and HDMI) and corresponding outputs. The corresponding output sources are connected from the RJP to the TV. The RJP communicates with the TV via RS232. The Hot Plug & Play function allows hotel guests to connect an external source to the RJP. The RJP communicates with the TV by sending messages regarding Active/ Inactive sources. The TV will switch to the Active external source according to the priority set by the User.

  ✎ You can select **HDMI IN** and **AV IN** for connecting the **RJP**.

  ✎ When the TV is on, connect the TV and the **RJP** within 10 seconds.

- The RJP can be returned to the factory default settings by pressing the A/V and HDMI buttons simultaneously for 10 seconds. All LEDs blink 5 times to acknowledge that the reset has been performed.
- The RJP will automatically turn off any LEDs after 5 minutes to avoid unnecessary light pollution in the hotel room. The LEDs that were turned off will turn on again if the guest touches any of the buttons and the 5 minute timer will restart. If the guest then touches another source button, the TV will change to the selected source and the corresponding LED will be lit.
- After an RJP Reset or a TV Power OFF/ON, it takes approx. 10 seconds to establish communications between the TV and the RJP.
- The following table shows the approximate time in seconds to switch from the TV to the input source, based on the priority.

  ✎ Scenario 1: When no inputs are connected.

Source	To Connect
AV	2 Sec
PC	0.7 Sec
HDMI	3.9 Sec

  ✎ Scenario 2: When two or more inputs are connected and an Input source is disconnected and then reconnected.

Source	Disconnect	To Connect	Total
AV	4.5 Sec	2 Sec	6.5 Sec
PC	0.7 Sec	0.7 Sec	1.4 Sec
HDMI	3.9 Sec	3.9 Sec	7.8 Sec

  ✎ E.g. If the RJP has all its live sources (AV, PC and HDMI) connected, AV is viewed as the highest priority. If the RJP is in HDMI mode, and a guest removes and reconnects the AV, the minimum time required to switch to the AV is 6.5 seconds.
- To connect an audio device (Ipod or Mp3), Music mode should be ON and the Jack Ident detect setting should be OFF.
- A/V, PC and HDMI input sources are supported.

Setting the Hotel Option Data

To Enter: Press the **MUTE → 1 → 1 → 9 → ENTER** buttons in this order. (Standalone mode is set in Hospitality mode.)

To Exit from this menu : power off and turn on again.

No	Item		Sub item	Initial Value		Description
				Standalone	Interactive	
1	Hospitality Mode		Standalone / Interactive Default : Standalone	Standalone		Select Hospitality mode.
2	SI Vendor		***	OFF	Samsung	Select the SI Vendor
3	Power On	Power On Channel EN	User Defined / Last Saved	Last Saved	User Defined	The TV will turn on at a particular channel.
		Power On Channel	***	1	1	When the TV is turned on, it switches automatically to this channel. (Available when the 'User Defined' is selected in Power On Channel EN)
		Channel Type	ATV / DTV / CDTV / SDTV	ATV	ATV	This feature determines the type of Power on Channel Type. (Available when the 'User Defined' is selected in Power On Channel EN)
		Power On Volume EN	User Defined / Last Saved	Last Saved	Last Saved	This feature configures the Power On Volume of the TV • User Defined: - The TV can be configured to Power ON at a user defined/specified Volume. • Last Saved: - The TV will always turn on at the last set Volume Level.
		Power On Volume	0~100	10	10	When the TV is turned on, it switches automatically to this volume level. Available when the 'User Defined' is selected in Power On Volume EN
		Min Volume	0~100	0	0	Set the minimum Volume Levels
		Max Volume	0~100	100	100	Set the maximum Volume Levels
		Power on source	TV / HDMI1 / HDMI2 DVI / HDMI3 / AV1 / COMP / PC	TV	TV	Select the Input source when the TV is turned on initially.
		Power On Option	Power On / Standby / Last Option	Last Option	Last Option	Determines the TV's state when power returns after a power failure or after you have unplugged the TV and then plugged it in again. • Standby: Standby State • Power ON: Power On • Last Option: Last Power State

No	Item		Sub item	Initial Value		Description
				Standalone	Interactive	
4	Channel	Channel Setup	***			Users can set channel options such as Auto Tuning, Manual Tuning, Antenna setting, etc.
		Channel Editor	***			Provided option for editing Channel Name and Number and video. Mute settings for channels in channel List.
		Channel Bank Editor	***	- (Remark)	n/a	Assign the channels that will be included in the channel bank. • You can assign a channel number to an external input source in the channel editor. The channel number is added to the channel bank editor. Available for Hotel TVs when "Smoovie" is selected in the Standalone SI Vendor
		Mixed Channel Map	On / Off	- (Remark)	n/a	This Feature enables showing/browsing all antenna type (Air/Cable or Satellite) channels at the same time. • On: When ON, guests can access the complete Channel Map irrespective of the selected antenna type. The Channel list will also populate Air as well Cable type channels. • Off: When OFF, guest can access the Channel Map corresponding to the selected antenna type [AIR/CABLE or Satellite] only. The Channel list/Editor will only show the selected antenna type channels.
		Dynamic SI	On / Off	ON	n/a	• On : Check the DTV Programme channel number. (the DTV channel editor is inaccessible) • Off: Do not check the DTV Programme channel number. (the DTV channel editor is accessible, but additional channel Programme number update is not supported)
		Channel Rescan Message	On / Off	OFF	OFF	When there is a mismatch between the data in the channel map and the transmitted data , the TV autotunes the channels to restore the data/parameters in the channel map. • On: When Channel Rescan Message is ON, The OSD showing that the channels are being rescanned will be displayed to Hotel Guests. • Off: A Hotel Admin can turn the Channel Rescan Message OFF, if the rescan message OSD should not to be displayed to Hotel Guests.
		Pan Euro MHEG	On / Off	ON	ON	• On: If Pan EURO MHEG is set to Off, MHEG runs according to the existing product specifications. • Off: If Pan EURO MHEG is set to On, MHEG is ON regardless of the product specifications or region.
5	My Channel	My channel En	On / Off	OFF	n/a	Enable or disable the Mychannel feature.
		Genre Editor	***	-	n/a	Edit the genre for channels. (Available when Mychannel is On)
6	Menu OSD	Picture Menu Lock	On / Off	OFF	OFF	Enable or disable the Picture Menu.
		Menu display	On / Off	ON	OFF	Enable or disable the Menu. • On: Enable • Off: Disable

No	Item		Sub item	Initial Value		Description
				Standalone	Interactive	
7	Operation	Panel Button Lock	Unlock / Lock / OnlyPower / Menu/Source	Unlock	Unlock	Turns the front panel (Local key) operation on/off. • Lock: Locks all panel keys • Unlock: Unlocks all panel keys • Only Power: Locks all keys except the power key (Panel Key). • Menu-Source: Locks only the Menu & Source keys
		Subtitle Auto On	On / Off	Off	Off	This function turns the function On/Off that automatically turns on the subtitles in a specific country. This function is supported for Hotel TVs that are ready to receive DVB broadcasts that is heading to Europe. This function is related to France's subtitle specification. The rest of the countries' subtitles function according to the appropriate country specifications regardless of the Subtitle Auto On function. • On: When the Subtitle Auto On function is ON, it follows France's subtitle specifications. • Off: When the Subtitle Auto On function is OFF, it does not follow France's subtitle specifications.
8	Clock	Clock Type	Off/SW Clock/ Ext. Clock	Off	Off	Select the clock type (Off/SW Clock/Ext. Clock) • Off: No clock options of the Hotel options will work. • SW Clock: Only the SW clock will work. • Ext. Clock: LED Clock related item work as Dimming/Clock test/Time Format.
		Local time	Standalone : Manual / TTX Interactive : Manual / TTX / Auto	Manual	Auto	Selecting how to update the clock data. • Auto: While set to Auto, the TV clock will be updated by the time information provided in the Tuned digital stream. • Manual: Use the clock data from the DVB channel or manual clock setting. • TTX: Manual clock setting (updated from the TTX data).
		Time Format	12 Hour / 24 Hour	24 Hour	24 Hour	Select the Time Format (Enabled when the Clock Type is "Ext. Clock")
		Clock Test	Failure / Success	Failure	Failure	Tests the brightness and pixels for the EXT. Clock. (Enabled when the Clock Type is "Ext. Clock").
		Clock Normal Dim.	0~4	4	4	Set the Ext.Clock brightness in the Power on state. (Enabled when the Clock Type is "Ext. Clock")
		Clock Standby Dim.	0~4	1	1	Set the Ext.Clock brightness in the standby state. (Enabled when the Clock Type is "Ext. Clock")
9	Music Mode	Music Mode AV	On / Off	OFF	OFF	Music Mode as the name suggests enables the hotel admin to audio from external sources such as AV/Comp/PC. While ON, guests can listen to the audio from the external sources, even if the video jack is not connected. If the video signal is connected, the TV will display the video content, else will o/p only audio. The TV Panel can be configured to completely turn OFF or show a speaker icon, by setting the backlight option.
		Music Mode PC	On / Off	OFF	OFF	
		Music Mode Comp.	On / Off	OFF	OFF	
		Music Mode Backlight	On / Off	OFF	OFF	This feature when turned ON , enables the Audio Icon to be visible by turning the TV panel backlight ON when Music mode for AV/ PC/ Component is turned ON.

No	Item		Sub item	Initial Value		Description
				Standalone	Interactive	
10	External Device	7610 Priority AV	1~3	1	1	This option defines the priorities in which the External sources (AV/PC/HDMI) will be switched to on the TV when connected to the RJP Device.
		7610 Priority PC	1~3	2	2	
		7610 Priority HDMI	1~3	3	3	
		7610 AV option	AV	AV	AV	Select the RJP AV Source.
		RJP HDMI Option	"HDMI1/DVI / HDMI2 / HDMI3"	HDMI1/DVI	HDMI1/DVI	Select the RJP HDMI Source (HDMI1/HDMI2/ HDMI3).
		Sound Bar Out	On / Off	Off	Off	An external device such as a Samsung Sound Bar can be connected to the TV via an Anynet Connection and the TV Sound can be routed to the Sound Bar Device. If the feature is OFF in the Hotel Factory Menu, this functionality is disabled The main TV Speaker will be muted while the Sound Bar option is ON and the Speaker is connected through HDMI.
11	External Source	USB Media Mode	Default / Automatic / Disable	Default	Default	This feature is used to change the behaviour of USB devices when plugged in. • Default : When this option is selected and we plug in a USB device, a popup window appears and the USB Media Play starts playing when you press Enter. • Automatic : If this option is selected, after plugging in a USB device, the USB Media Play starts automatically. • Disable : If this option is selected then popup windows as well as the automatic media play is disabled. You will receive no notifications when plugging in a USB device.
		External Source Banner	On / Off	ON	ON	Displays the External Source information when you change the TV source to external input. Press the info key and the TV turns on. • On : The External Source information is displayed on the TV screen. • Off : The External Source information is not displayed on the TV screen.
		Auto source	On / PC / Off	OFF	OFF	Auto Source is a function which allows the TV to automatically switch to a Connected Live source, once a Hotel guest connects any video source such as a Note PC, DVD player etc. without pressing any remote or panel key. • On : All external sources except PCs will be applicable for Auto Switch • PC : only PCs source is applicable for Auto switch • Off : No sources will Auto Switch
		Anynet+Return Source	Power On Src / Last Source / Each model source list (AV1, COMP, PC, HDMI1…)	Power On Src	Power On Src	Select Return Source when disconnecting from AnyNet+

No	Item	Sub item	Initial Value		Description
			Standalone	Interactive	
12	Bathroom Speaker	SubAmp Mode	0~2	2	2	The Bathroom speaker can be operated in three different ways by setting Sub Amp Mode in the standalone menu. • 0 : Mode 0 disables the bathroom speaker. • 1 : In mode 1, the Bathroom speaker follows the TV Main speaker. The Bathroom speaker sound is controlled from the Samsung RCU and the volume keys on the TV panel. Speaker volume = (Main speaker volume)/3 If a user presses the mute key from the Samsung RCU then the bathroom speaker is also muted. • 2: In this case a separate panel (with up/down keys) is connected to the TV. The Bathroom speaker volume (0~32) can be controlled from these panel keys. In this ccase, the main TV speaker audio is not at all effected. Sub AMP Volume : 0~32
		SubAmp Volume	0~32	6	6	Set the Sub AMP Volume. (The Sub Amp Volume option sets the default Bathroom speaker volume.)
13	Eco Solution	Energy saving	Off / Low / Medium / High	OFF	OFF	This feature adjusts the brightness of the TV to reduce power consumption. • Off: Turns off the energy saving function. • Low: Sets the TV to low energy saving mode. • Medium: Sets the TV to medium energy saving mode. • High: Sets the TV to high energy saving mode.
14	Logo/ Message	Welcome Message	On / Off	OFF	OFF	Display the Welcome Message
		Edit Welcome Message	***	-	-	Edit the Welcome Message
		Hospitality Logo	Off / BMP / AVI / BOTH	OFF	OFF	Select the hospitality Logo type.
		Hospitality Logo DL	***	-	-	Download the hospitality logo file from a USB device to the TV.
		Logo Display Time	3 second / 5 second / 7 second	5 second	5 second	Set the logo display time.
15	Cloning	Clone TV to USB	***	-	-	Copies all settings of the TV to a USB device.
		Clone USB to TV	***	-	-	Copies all settings of the USB device to the TV.
		Setting Auto Intialize	On / Off	OFF	OFF	When this option is kept ON, it restores the Picture Setting, Sound Setting and other user menu settings which were there in the clone files at every time the power is turned on. Therefore, if any guest changes the backlight or colour or any other user menu item , the default setting of the clone file is applied every time the power is turned on.

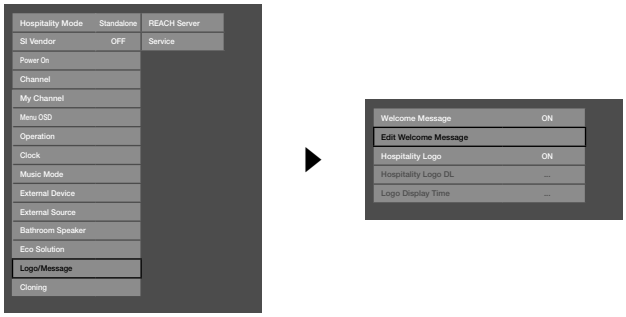
No	Item		Sub item	Initial Value		Description
				Standalone	Interactive	
16	REACH Server	REACH Server update Time	OFF / 1hour / 2hour / 12:00 am / 2:00 am / 12:00 pm / 2:00 pm	1hour	n/a	Select the SIRCH update Time. In the SIRCH update time , you have the option to perform an automatic upgrade at 12:00 AM/PM or at 2:00 AM/PM. You can perform hourly upgrades at an interval of either 1 hr or 2 hrs.
		REACH Update Immediate	On/Off	Off	n/a	• On : Whenever the TV enters Standby mode, always performs the SIRCH Update • Off : Only performs the SIRCH Update at the selected SIRCH Update Time
		REACH Server Channel	***	87	n/a	Select SIRCH Update Channel
		REACH Server Version	***	0000	n/a	Display the version of the SIRCH Clone file currently updated on the TV.
		REACH Server Group ID	All, 1 - 511	ALL	n/a	Select the SIRCH Group ID
		S-LYNK REACH	On/Off	Off	n/a	Enable or Disable the REACH Display
		S-LYNK REACH Volume	On/Off	On	n/a	• On: The TV sound in the current TV source is output continuously even though the S-LYNK REACH menu is displayed. • Off: The TV sound in the current TV source is stopped when the S-LYNK REACH menu is displayed.
		TICKER	On/Off	Off	n/a	• On: The TICKER contents is displayed. • Off: The TICKER contents is not displayed.
17	Service	Self Diagnosis for TV	***	-	-	Enter the Self Diagnosis Menu. • Picture Test: Use this to check for picture problems. If the problem appears in the test picture, select Yes and follow the directions on the screen. • Sound Test: Use the built-in melody sound to check for sound problems. If the problem occurs during the test, select Yes and follow the directions on the screen.
		Self Diagnosis for HTV	***	-	-	This lets you check the state of the Variable audio out and the communication with the SI STB or SBB. If you encounter any problems in the variable audio out feature or communication with the SI STB or SBB, please check this items.
		Upgrade Now	***			Upgrade the TV software.
		Service Pattern	***	-	-	Display the Service pattern.
		TV Reset	***	-	-	Reset the TV.

✎ REACH (Remote Enhanced Active Control for Hospitality) is a professional and interactive remote controller that lets you deliver TV firmware updates, cloning data, channel mapping changes, S-LYNK REACH contents, and TICKER contents through RF DTV to several hundred hospitality TVs simultaneously. The REACH functions are only available in stand-alone mode. The REACH Server is sold separately. Refer to the REACH server manual enclosed in the REACH server product for more information on operating it.

Welcome Message

The Welcome message is a feature that allows you to display ccustomized message on the TV every time the TV is turned on by a guest in a hotel room.

- The Welcome message settings are placed in the Hotel Option Menu.
- The Welcome message should be ON in order for the message to be displayed when the power is turned on.



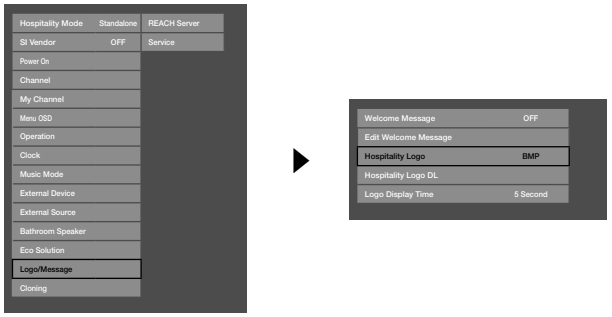
- The Welcome message can be up to 25 characters and can be edited in the Hotel Service menu.
- The following is the list of characters supported for the Welcome message.
  ✎ Only the capital letters A to Z are allowed.
- The Welcome message can be edited using the navigation, colour & enter keys of the remote control in the “Edit Welcome Message” OSD.

- The Welcome message and hotel logo cannot be active at the same time.

Hospitality Logo

The Hospitality Logo function displays the Hotel's logo when the TV is powered on.

- The Hospitality Logo settings are in the Hospitality mode menus.
- The Logo Download and Logo Display Menu items are enabled when you turn the Hospitality Logo option on.
- If there is a logo image stored in the memory and the Hospitality Logo option is on, the Hospitality logo is displayed when the TV is turned on.
- The Hospitality logo is not displayed when the Hospitality Logo option is off, even if the logo image has been loaded onto the TV.



- **Hospitality Logo**
  - This option lets you choose whether the Hospitality Logo image is displayed or not.
  - The Initial value is OFF.
  - Can be set to OFF or ON.
  - When set to ON, the Logo Download and Logo Time Display menu items become accessible.

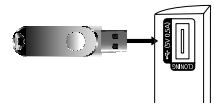
- **Hospitality Logo DL**
  - This option lets you download the logo image to the TV's memory from a USB device.
  - The Wait message appears while the image is being copied to the TV.
  - The Completed message appears when the copy operation has finished successfully.
  - The Failed message appears when the copy operation was unsuccessful.
  - The No USB device message appears if no USB device is connected.
  - The No File message appears if there is no file to copy on the USB device or if the file is in the wrong format (must be a BMP file). If the No File message appears and there is a logo file on the USB device, check the file format.

- **Logo File Format**
  - The TV only supports the BMP and AVI formats.
  - The file name must be samsung.bmp or samsung.avi.
  - The maximum resolution of the BMP format is 960 x 540.
  - The maximum file size of the AVI format is 30MB.
  - The TV does not change the size or scale of the image.

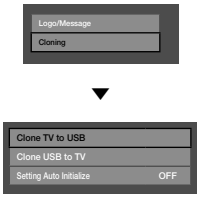
Cloning

USB Cloning is a function to download user configured settings (**Picture, Sound, Input, Channel, Setup**, and **Hotel Setup**) from one TV set and upload the same settings to other TV sets.
All user-defined settings from the TV (Master Set) can be copied to the USB device.

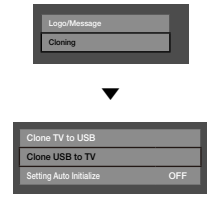
- **Clone TV to USB**: This is an operation that copies the stored data from a specific area of the TV EEPROM to the USB device.



  1. Insert a USB drive into the USB port on the back of the TV.
  2. Enter the Hotel Options by pressing these buttons in the following order.
     - **MUTE** → 1 → 1 → 9 → **ENTER**
  3. Press the ▲ or ▼ button to select “Clone TV to USB”, then press the **ENTER** button.
  4. The message “Clone TV to USB” is displayed, then press the **ENTER** button.
  5. You can check the status of the USB cloning operation.
     - **In Progress**: While copying data to the USB device.
     - **Completed**: The copy operation was finished successfully.
     - **Failed**: The copy operation was not finished successfully.
     - **No USB**: No USB device connected.



- **Clone USB to TV**: This is an operation that downloads the stored data to the USB device to the TV set.



  1. Insert a USB drive into the USB port at the back of the TV.
  2. Enter the Hotel Options by pressing these buttons in the following order. **MUTE** → 1 → 1 → 9 → **ENTER**
  3. Press the ▲ or ▼ button to select “Clone USB to TV”, then press the **ENTER** button.
  4. The message “Clone USB to TV” is displayed, then press the **ENTER** button.
  5. You can check the status of the USB cloning operation
     - **In Progress**: While copying data to the USB device.
     - **Completed**: The copy operation was finished successfully.
     - **Failed**: The copy operation was not finished successfully.
     - **No USB**: No USB device connected.
     - **No File**: There is no file to copy on the USB device.

✎ The operation to copy from the USB device to the TV can be executed by pressing and holding the **ENTER** key for 5 seconds.

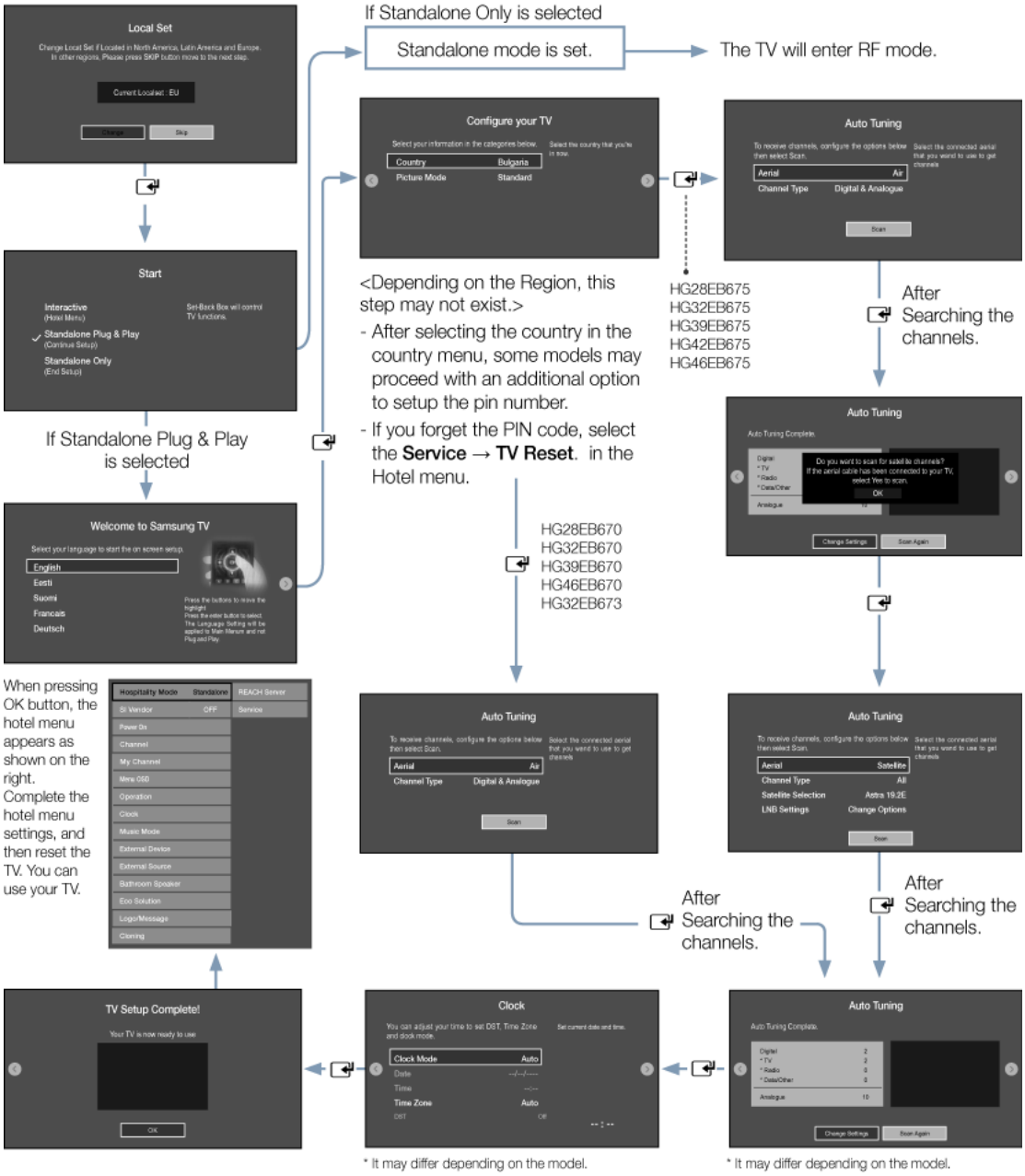
✎ The **CLONE** function only supports the same model series. (It does not work properly for different model series.)

For fast instant cloning during an installation!
Insert the USB key with the master settings from the first TV and press and hold the Enter key for 5 seconds.

Plug & Play

The Hotel Plug & Play function automatically performs the Hotel mode selection, Country Setup, Clock Setup and Picture mode Setup when the TV starts for the first time.

- Hotel Plug & Play is only available when the power is turned ON for the first time.
- After setting up the TV first and running Clone TV to USB.
- Next, the TV only needs to exit Hotel Plug & Play, connect to the USB device, then run Clone USB to TV.



* It may differ depending on the model.

* It may differ depending on the model.

1. LocalSet
   - Check the **Current Localset**.
   - If you want to change the localset, select the **Change**.
   - If you select the **Skip**, the **Start** screen appears.

2. Start - Easy Set Up
   - If you select the **Standalone Only**, the Standalone hotel mode is set by default.
   - When you select the **Interactive**, Interactive Setup Menu is displayed. Press the power off button to exit from the Interactive menu.
   - Select the **Standalone Plug & Play** to go next step.

3. Select the Language
   - Select the OSD (On Screen Display) language.
   - Display time: The OSD timeouts and operations are the same as all of Samsung's consumer TV models.

4. Select the Country and Picture Mode
   - Select the appropriate country and picture mode.

5. Auto Tuning
   - Select the antenna source and channel type. Configure the settings and select the **Scan**.
   - The **Auto Tuning** operation starts searching for channels
   - When the **Auto Tuning** operation is completed, the channel information is displayed.

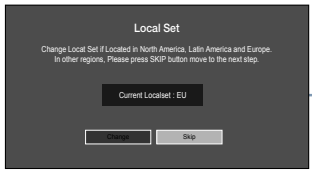
6. Clock
   - Set the right time by setting the **DST** (Daylight Savings Time) and **Time Zone**.

7. TV Setup Compete

HD Plug & Play – Local Set

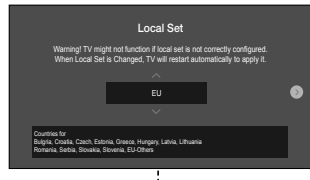
- Local Set is very important software setting value such as Languages, Broadcast frequencies, etc.
- TV might not function, if Local Set is not correctly configured. Select correct Local Set with country list provided.

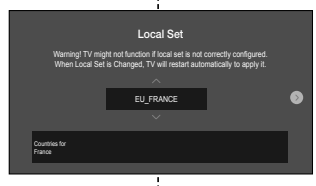
Local Set change option on the first page of HD plug&play

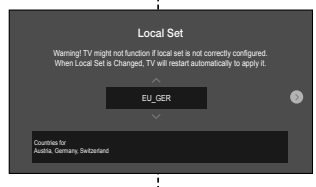


Region	Country	Local Set
Europe	Bulgaria Croatia Czech Estonia Greece Hungary Latvia Lithuania Romania Serbia Slovakia Slovenia EU Others	EU
	Italy	EU_ITALY
	Austria Germany Switzerland	EU_GER
	France	EU_FRANCE
	Belgium Luxembourg Netherlands	EU_BELELUX
	Portugal Spain	EU_SPAIN
	United Kingdom Ireland	EU_UK
	Denmark Rinland Norway Sweden	NORDIC
	Turkey	EU_TURKEY
	Poland	EU_POLAND
CIS	Kazakhstan	CIS_RUSSIA
	Russia	
	Ukraine	

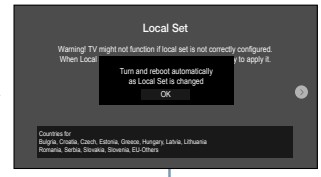
Select right Local Set with country list



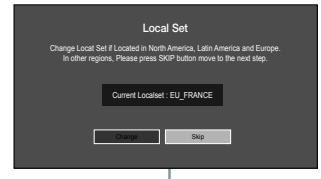




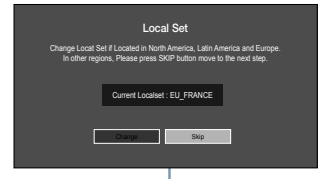
TV will reboot automatically to apply new Local Set

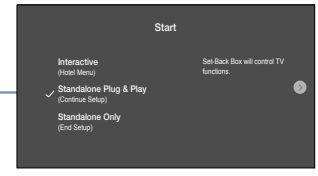


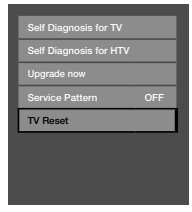
After reboot, updated Local Set is shown



Press Skip, general HD plug&play will be continued







If you need to change Local Set after HD plug&play, click TV Reset function on Factory mode, you can progress HD plug&play including Local Set change.

SW Clock

The SW Clock shows the current time on the screen when a user presses the Info remote control key in standby mode.

- If a user presses the Info key when the TV is in standby mode, the TV is turned on and shows the current time on the screen for 10 seconds and then returns to standby mode.
- The time is displayed as a digital clock at the normal banner size. The 12 or 24 hour time format is determined according to the format of the Information.
- If a user presses the Info key when the TV is on, the original Info key function is executed.

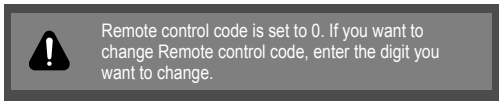
- Detailed Descriptions
  - The SW clock works depending on the On/Off setting in the Factory install menu.
  - If the SW clock is turned on, the Fast logo option is automatically turned off. (In this case, even if you turn the Fast logo option on again, it is automatically turned off when the TV is turned on again.)
  - If the master power is turned off, the time setting is only maintained in models with a backup condenser and an RTC.
  - When a TV in standby mode shows the current time, the video mute and audio mute settings are maintained.
  - In this case, even if the Hotel logo is set to on, the Hotel Logo display is skipped.
  - This feature only works in StandAlone mode.
  - Other key function specifications when the SW clock is running
  - The Info key works like the power key.
  - Pressing the Power or Info key while the SW clock is running, puts the TV into Standby mode.
  - Pressing keys other than the Power and Info keys is ignored while the SW clock is running.
  - In this case, the on timer does not work.
  - The off timer and sleep timer work.
  - When clock mode in the Time menu is set to manual, the time of the sub micom is maintained by the RTC circuit.
  - Even if the current time is not configured, it is displayed in the same way as the menu. (--:--)

* This function may differ depending on the model.

Multi Code Remote Control

Multi Code Remote Control is a special transmitter which is designed to control multiple TVs with one remote.
This function is useful when there is more than one TV in one location such as a hospital. The Set ID number will be displayed in the source OSD. It is possible to support up to 9 different remote key transmission for multi code.
The initial ID code of each TV is “0”.
The ID code can be set and reset in Analog TV mode or PC mode. (not available in TTX or DTV channels)

- The ID code can be from 0 to 9.
- Press the **RETURN** + **MUTE** keys for longer than 7 seconds and the digit key you want to set.
- The Set ID OSD will be displayed in a central position.
- The following words will be displayed. “The Remote control code is set to x. If you want to change the Remote control code. Enter the digit you want to change.” (x is the digit number) This OSD will be displayed until the exit key is pressed.

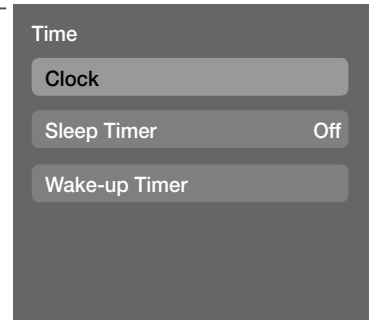


- For example, the TV and Remote control will be set to ID code #1 if the user presses #1.
- The following words will be displayed.“Remote control code is changed to 1”. The TV can then only be controlled by a remote control with the same ID code as the TV.
- If the ID code between the remote control and the TV does not match, the following words will be displayed. “ TV ID x” (x is the TV’s ID)
- To reset the ID code, press the **EXIT** + **MUTE** keys for longer than 7 seconds. The ID codes of both the TV and Remote control will be reset to “0”. “Remote control code is set to 0.” will be displayed.
- The way to set or reset the ID may differ depending on the remote control. See the table below.

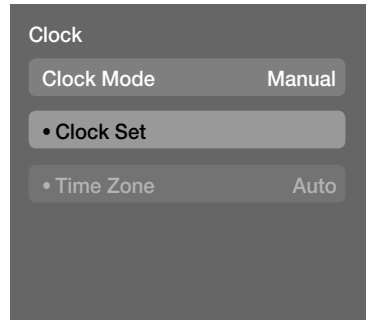
Setting the Time

MENU → **System** → **Time** → **Clock** → **Clock Set**

- **The time is entered**
  - Press the remote control button to select **Clock** and set up the time.



- **Setting the Interactive Mode Time**
  - If the Hotel System transmits the time information, the time is set automatically.
  - If the Hotel System does not transmit the time information, the time cannot be displayed.



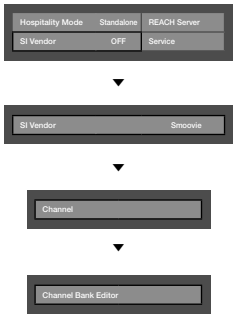
✎ If the time is set, the clock will be displayed on the front panel.

Channel Bank Editor (Smoovie TV Only)

Channel Bank Editor is a function to edit channels with 3 different Bank Options.
Depending on the Bank card, there are specific channels hotel customers can enjoy.

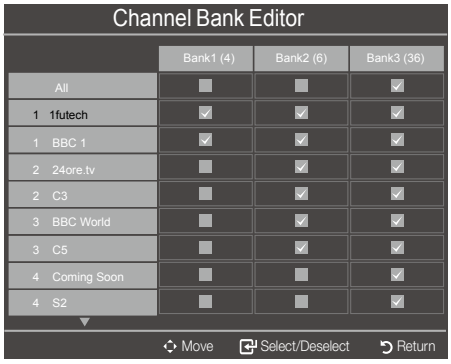
Setting the Channel Bank Editor in Stand-alone Mode

1. Enter the Hotel Standalone menu by pressing "**MUTE+1+1+9+Enter**"
2. Please select the SI vendor : "**Smoovie**"
3. You will be able to see the new menu option "**Channel Bank Editor**"
4. Enter "**Channel Bank Editor**"



<Depending on the model and region, some menu items may not exist>

5. Edit the channel bank like in the example below.
   a. **Bank1 (Free channel): Select the channel that will be used when the remote control has no card.**
   b. **Bank2 (Family Card - Green): Select the channel that will be used when a remote control has a GREEN CARD.**
   c. **Bank3 (Adult Card - Red): Select the channel that will be used when a remote has a RED CARD.**



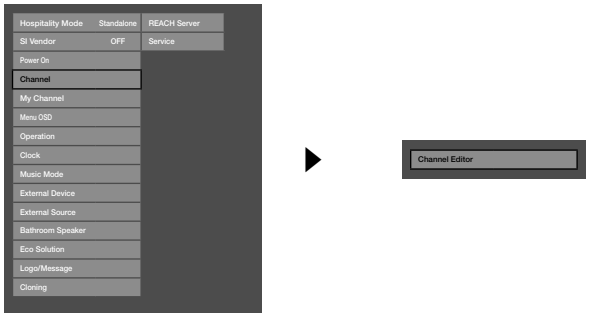
References for using the SMOOVIE Remote Controller

1. If you select SMOOVIE as the SI vendor, you should use a SMOOVIE Remote Controller.
2. Using the numeric keys of the remote controller, users can only select Bank1 channels.
   With this in mind, if you want to change the channel using a Green or Red Card, please use the channel up/down keys.
3. In the Channel guide or Channel list, users can only see the Bank1 channel list.

Channel Editor

The Channel Editor function allows you to edit the channel number and name.

– Use the Channel Editor to sort the channels.



<Depending on the model and region, some menu items may not exist>

Simple Steps for the Channel Editor in Stand-alone Mode

Step	Broad Outline
1	Operate 'Channel Auto Store' in the Hotel Option Menu
2	Enter 'Channel Editor' in the Hotel Option Menu
3	Compile a table related to the final channel lists you want
4	Rearrange channels with **TOOLS** button based on the table you compiled
5	Press the **EXIT** or **RETURN** button to exit.
<For better comprehension, please refer to the following details>	

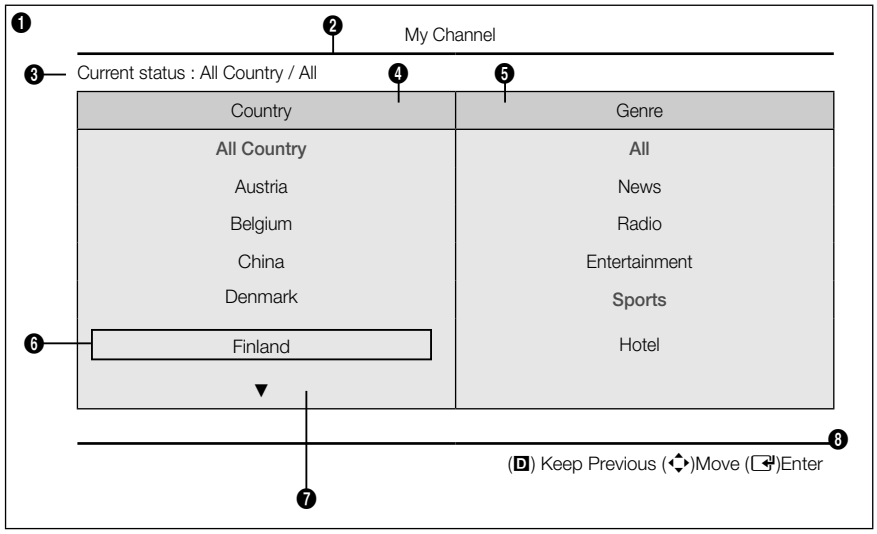
My Channel

Determines the country and genre for the channels provided by the hotel, and if the user selects a country and genre, shows the corresponding channels.

- You must select the country first, or you cannot set a genre.
- If you select the genre that not added any channels, the Channel list displays all channels.
- My Channel works in Standalone mode only.
- SI Vendor in Standalone mode: This does not work if Smoovie is selected.
- This is in the Hotel Options in the Hotel Menu > Service Mode and can be turned on or off.
- This option only works when it is set to On.
- This function is only available in the countries below;
  AUSTRIA, BELGIUM, CHINA, DENMARK, FINLAND, FRANCE, GERMANY, GREECE, ITALY, JAPAN, NETHERLANDS, NORWAY, PORTUGAL, RUSSIA, SOUTH KOREA, SPAIN, SWEDEN, TURKEY, UK, USA.

Channel Composition [Genre Mode]

Standard	Category	Ch. Mode	Antenna Mode Activation		Description
			Air/Cable	Satellite	
Hotel	Genre	All (Default)	O	O	Provides a genre channel mode for each country that master has managed in factory mode.
		News	O	O	
		Radio	O	O	
		Entertainment	O	O	
		Sport	O	O	
		Hotel	O	O	



* For the number of items to be displayed in the list, refer to the design document.

Key Guide

Button	Action	Nav. Help
D	Returns to the screen. (Genre setup: Last Country & Genre)	Keep Previous
ENTER	Selects an item.	Enter
∧ CH ∨	Move the highlight by page.	(No Guide)
▲/▼	Navigates each country, genre list (in a circular manner).	Move
►	Selects the highlighted item and then moves the highlight to the Genre section.	
RETURN	Returns to the screen. (Genre setup: Last Country & Genre)	(No Guide)
EXIT	Returns to the screen. (Genre setup: Last Country & Genre)	(No Guide)

✎ Notes

- This section describes the layout of the Front UI that appears when the TV is turned on. (Factory Mode > Genre Mode: Enable).
- The genre is a sub-list of each country.
- The broadcast screen that was being displayed the last memorial channel.
  - If a user wants to keep the previous country & genre channel map, press 'BLUE', **RETURN**, and the **EXIT** remote-control key to close the Front UI.

✎ Etc.

- Default Highlight : Last Memory items (Country, Genre)
- Timeout (60 sec)

Elements

No	Name	Description
1	Background Screen	• Displays the last memorized channel when the TV is turned on.
2	Function Title	• This is name of the function.
3	Current Status	• Displays the current Country/Genre settings.
4	Country Items	• The items for the country list are displayed. • Displays the last selected country.
5	Genre Items	• The items for the genre list are displayed. • Displays available genre items for each country that master managed in factory mode (always provide the 'All' item). • Displays the last selected genre.
6	Highlight	• If the item title is too long to be displayed in the area, Auto Text Sliding works.
7	Indicator	• This is displayed when there is a previous or next page.
8	Nav. Help	• The key guide is aligned to the right.

Highlight Interaction [Country Items]

• This page is only for interaction. Each screen may not be exactly identical to the actual one.

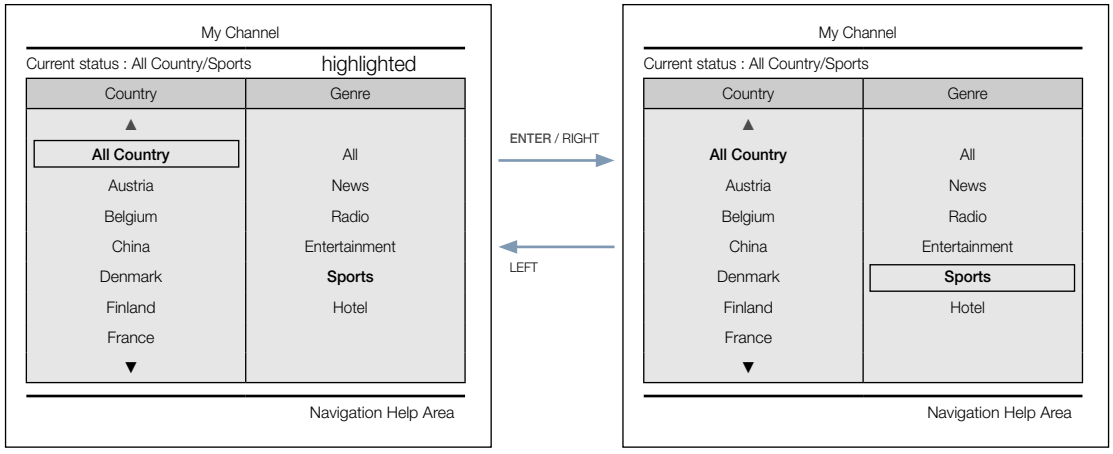
✎ Notes

- Users can navigate the list items in each country & genre list by pressing the up or down remote control keys.
- Circular navigation is supported.

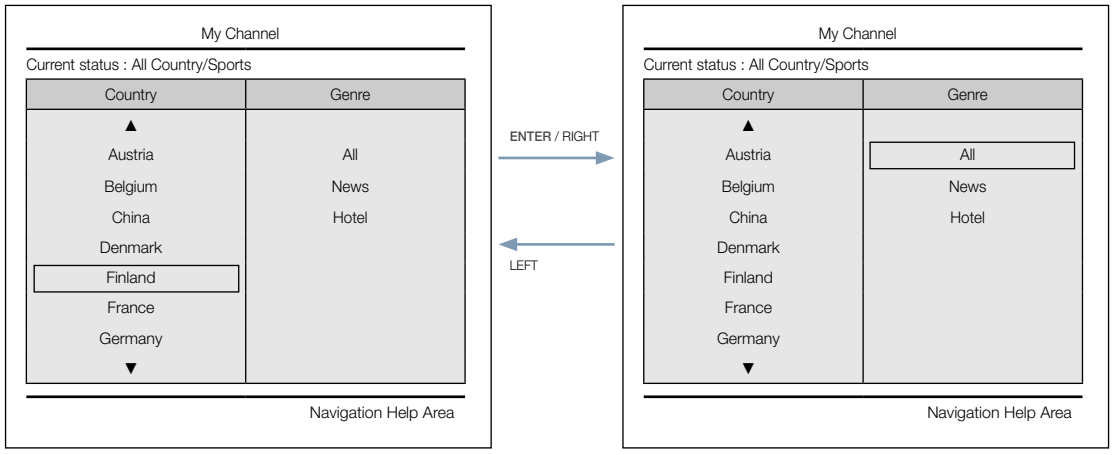
❶

Highlight Interaction [Default Genre]

• This page is only for interaction. Each screen may not be exactly identical to the actual one.



- The current selection of the country is highlighted.
- Default Highlight: The current genre selection.

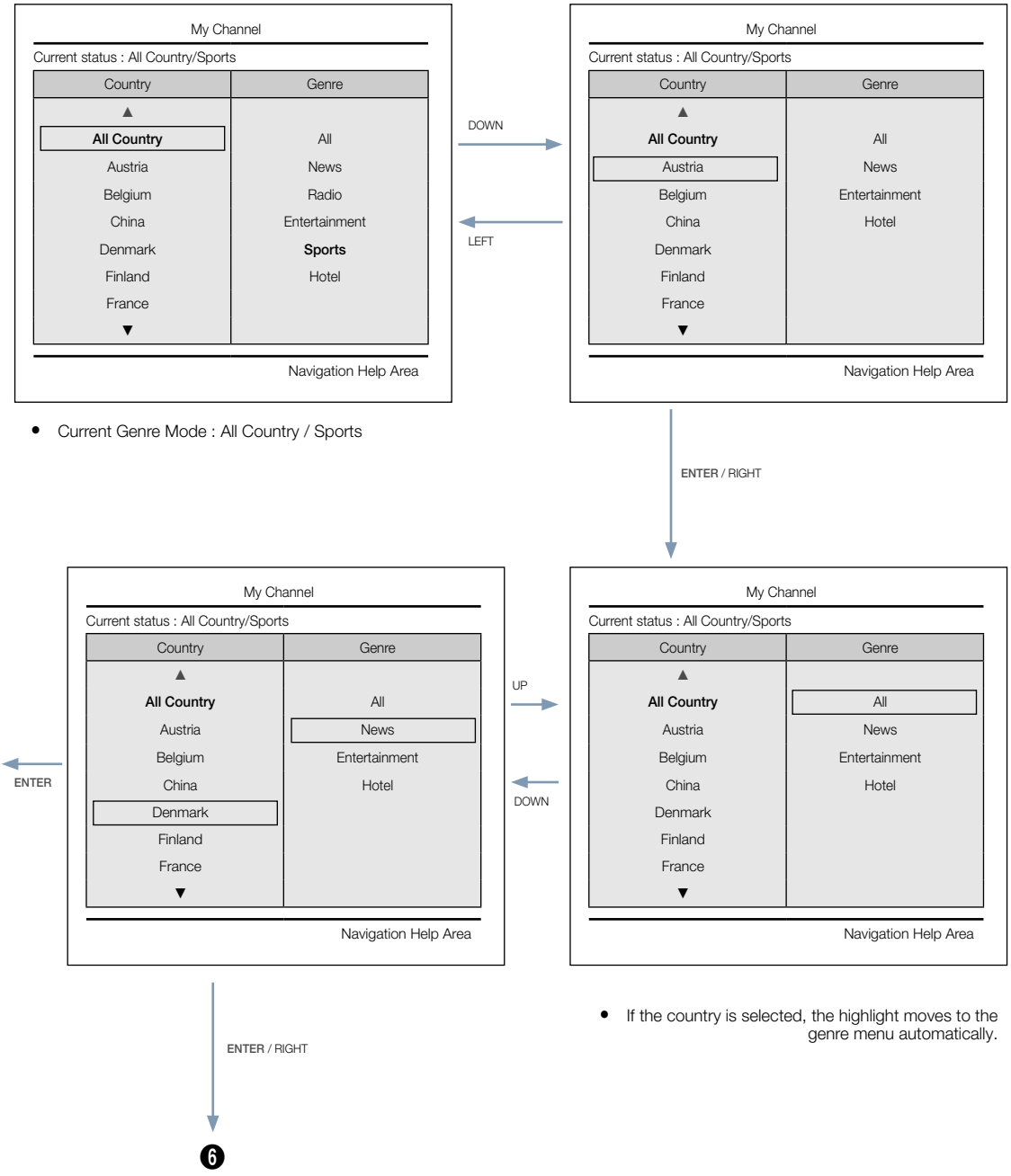


- The next other item of the county is highlighted. (ex. France)
- Default Highlight : All

Mode Change Interaction 1 (1/2)

• This page is only for interaction. Each screen may not be exactly identical to the actual one.

❶



• Current Genre Mode : All Country / Sports

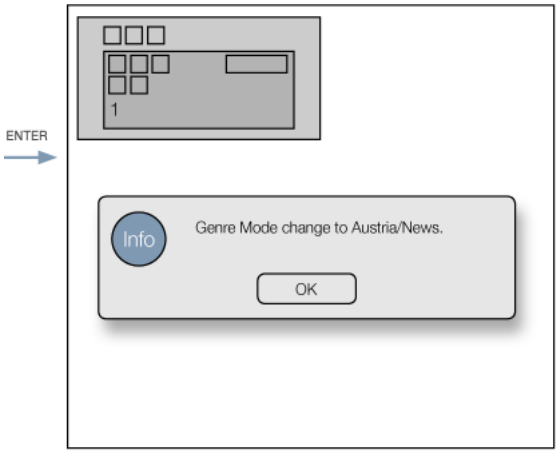
• If the country is selected, the highlight moves to the genre menu automatically.

❻

Mode Change Interaction 1 (2/2)

• This page is only for interaction. Each screen may not be exactly identical to the actual one.

❺

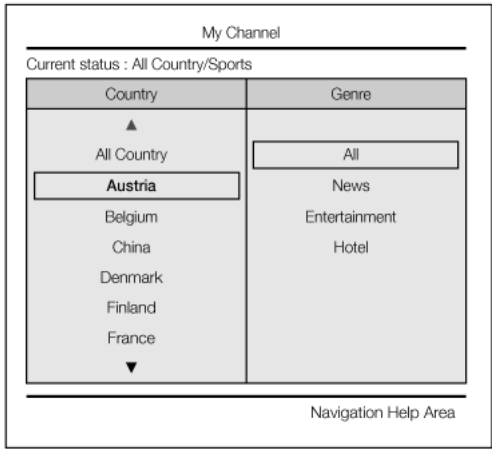


- The genre mode change complete message is displayed.
- Timeout(5 sec.)

ENTER / RETURN / Timeout

❻

❶

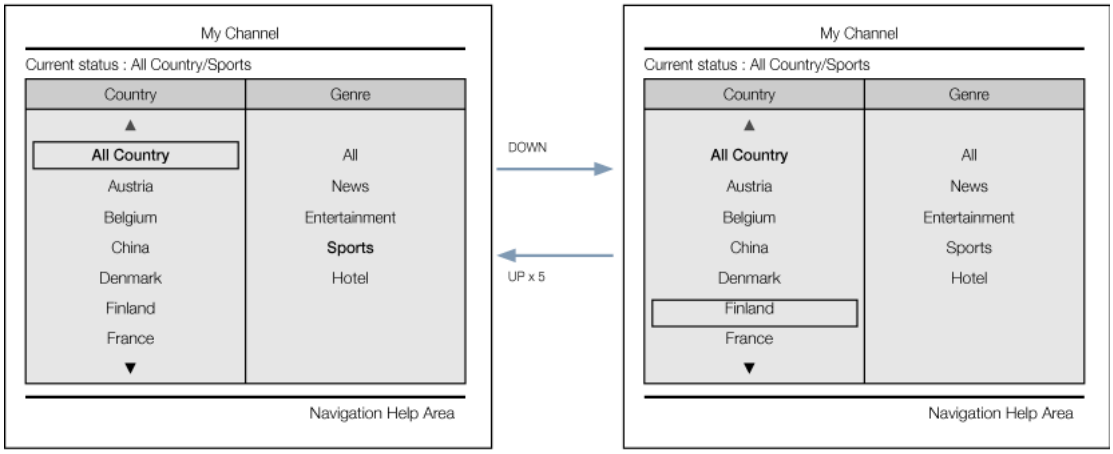


- If the left key is pressed from the genre to the country menu, an existing selected country item is highlighted.

Mode Change Interaction 2 (1/2)

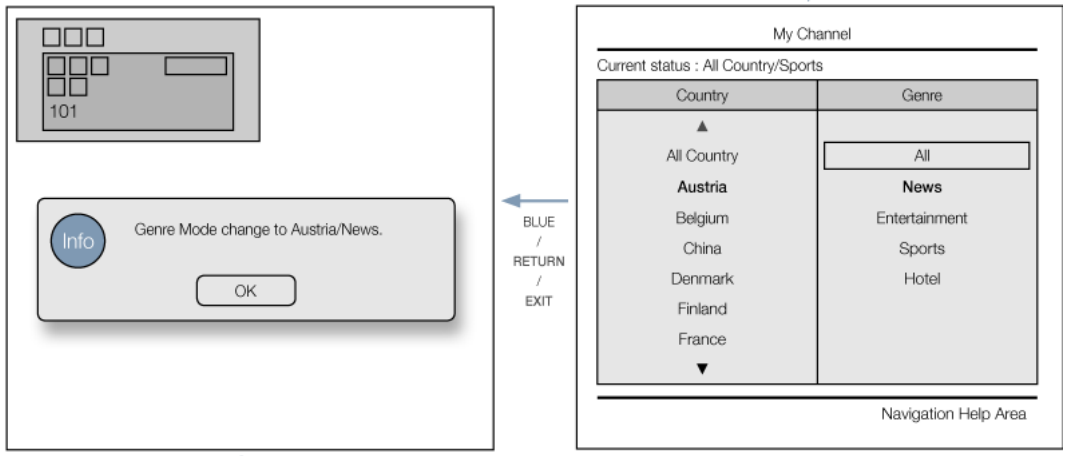
• This page is only for interaction. Each screen may not be exactly identical to the actual one.

❶



• Current Genre Mode : All Country / Sports

ENTER / RIGHT



• If the country is selected, the highlight moves to the genre menu automatically

ENTER
/
RETURN
/
Timeout

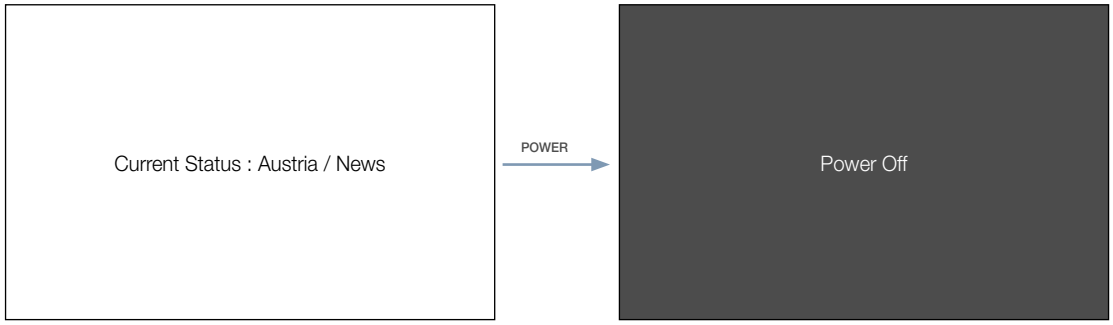
❺

• Current Genre Mode : All Country / Sports

Power On Scenario [Last Memory]

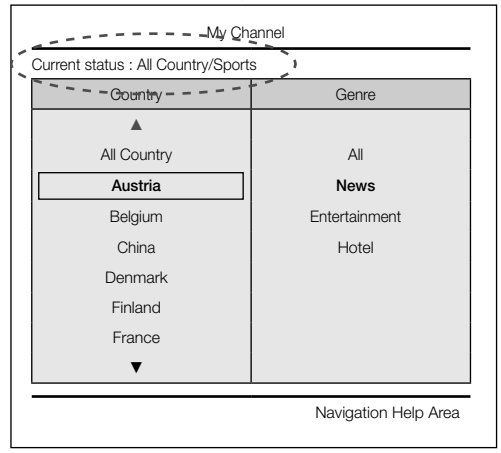
• This page is only for interaction. Each screen may not be exactly identical to the actual one.

❶



• Current Genre Mode : Austria / News

POWER

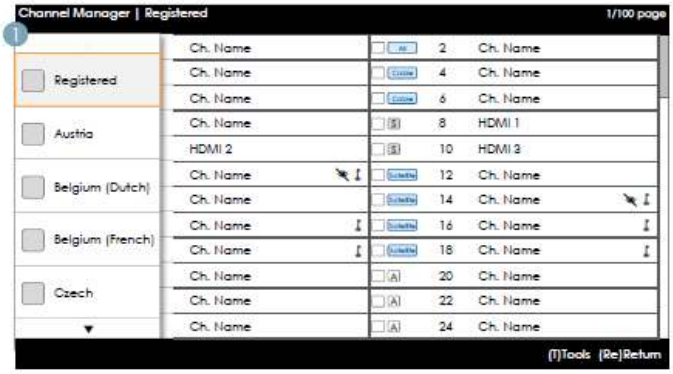


• Current Genre Mode : Austria / News

Genre Editor (This configures the genres of each of the hotel TV channels.)

- This can be used through the Hotel Menu (Factory).
- Supported genres include News, Radio, Entertainment, Sports and Hotel.
- More than one genre can be selected for each channel at the same time.
- Country Editor (Channel Editor): This is the editor that configures the country for each of the hotel TV channels.
- Supported countries (20 countries): Austria, Belgium, China, Denmark, Finland, France, Germany, Greece, Italy, Japan, Netherlands, Norway, Portugal, Russia, Korea, Spain, Sweden, Turkey, USA
- If more than one channel is set for a country, the country is registered as a category and users can view the channels by country.
- More than one country can be set to a channel. If the user selects a category, only the channels corresponding to the country are displayed in the channel list.
- If any channel for which the country is set is selected from the channel list, the Edit Countries item is added to the Tools menu. Otherwise, the Add to Countries item is added to the Tools.
- * If the corresponding function is executed, a country for the selected channel can be set or canceled.
- Front UI
- Provides the screen where the user can select a country or genre when the user turns the power on.

Left Frame Layout



Key Guide

Button	Action	Nav. Help
ENTER	Selects or enters the corresponding Channel Browser area.	(No Guide)
RETURN	Selects or enters the corresponding Channel Browser area.	Return
▲/▼	Moves the highlight up or down.	(No Guide)
►	Moves the highlight to the Channel Browser area.	(No Guide)
INFO	Shows the Category Info.	(No Guide)
TOOLS	Shows the utility function menus.	Tools
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

✎ Notes

- This is a component of the Left Frame (Country Categories).

✎ Etc.

- Default Highlight: 'The currently selected country'

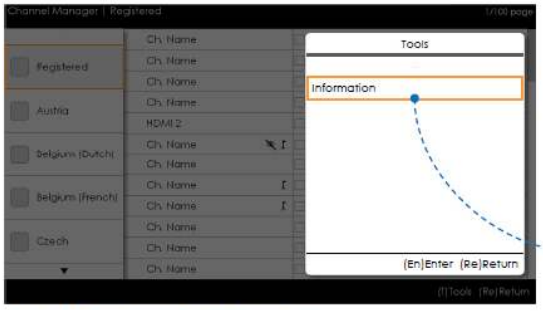
Elements

No	Name	Description
1		• When the user enters this screen, the currently selected default item is highlighted. • The Country Icon + Category Name are provided. (If the highlight is in the Main Frame, only the icon is displayed.) • Moving the highlight – Pressing the up or down button moves the highlight. – If the items cannot be displayed on one page, up and down indicators are provided. – Once the highlight is moved to a category, the channel list corresponding to the corresponding category is loaded to the Main Frame.

Left Frame [Country Categories]

Standard	Category	Ch. Mode	Antenna Mode Activation		Description
			Air/Cable	Satellite	
Hotel	Original Tuned	Registered	O	O	• Lists all the channels registered by the Auto Tune operation.
	Country	All Country	O	O	• Provides a list of channels and sources specified in the Registered Channels list. • All Country is the sum of all channels registered to each country. (This is only provided to end users.)
		Country 1	O	O	
		Country 2	O	O	
		.	O	O	

Tools [Registered/Countries Categories]



• Channel Manager > Channel Category > Tools > Info

- The items are displayed without 'Channel'.
- If the Registered/Country item in the Left Frame is highlighted, you can enable the corresponding window by pressing the '**INFO**' remote control key.
- All countries are displayed.
- You can navigate country items by pressing the up or down key. (Indicators are provided.)

✎ Notes

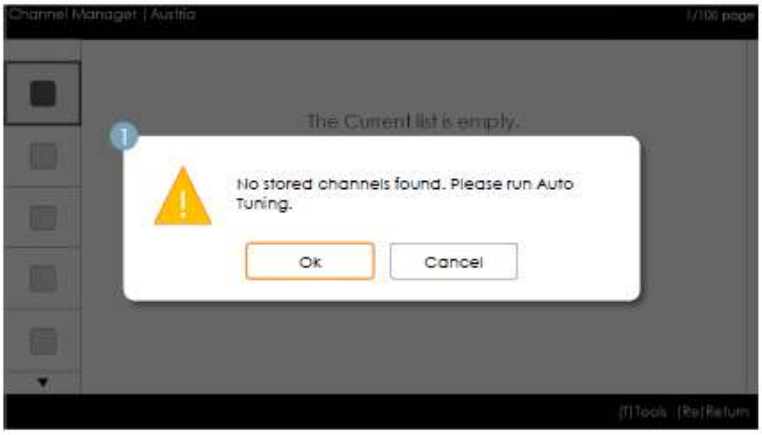
- This is a definition of the Tools menu in the Left Frame Category.
- Only the Info item for each Register/Country is provided.

Elements

Category	Tools menu	Descriptions
Registered, Country	Information	Registered Channels. The number of channels of each country.

• The items are displayed without 'Channel'.

Error Cases

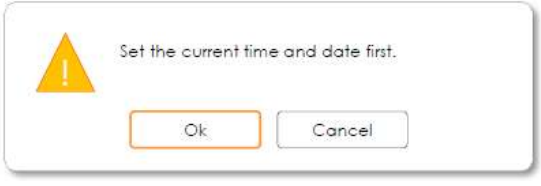


✎ Notes

- This is the message when there are no saved channels in the Registered Channels list.

Elements

No	Name	Description
1	Message	• When entering the browser, if the Registered channels item is empty, a popup message is displayed which enables users to switch to the Auto Store (Programme) menu. • When both the time and the channel are not configured and a user enters the Channel Manager, a message that allows the user to switch to the Auto Tuning (Auto Programme) operation is displayed in the same way as above.



- This is the message when the time is not configured.
  – If the time is not configured, the message is displayed in Factory Mode before entering the Channel Manager.

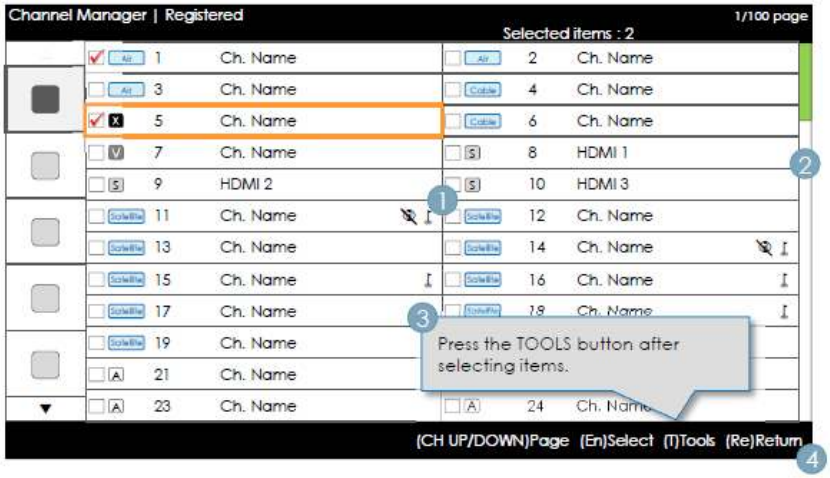
✎ Notes

- This is the component for when there are no channels registered to the country category.

Elements

No	Description	Description
		• The message is displayed when the currently selected country does not contain any items.

Main Frame [Channel Browser]



Key Guide

Button	Action	Nav. Help
∧ CH ∨	Moves the page.	Page
ENTER	Selects or enters the corresponding Channel Browser area.	Select
RETURN	Returns to the previous step (Factory Mode).	Return
▲/▼	Moves the highlight up or down.	(No Guide)
►	Moves the highlight to the Channel Browser area.	(No Guide)
INFO	Shows the Category Info.	(No Guide)
TOOLS	Shows the utility function menus.	Tools
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

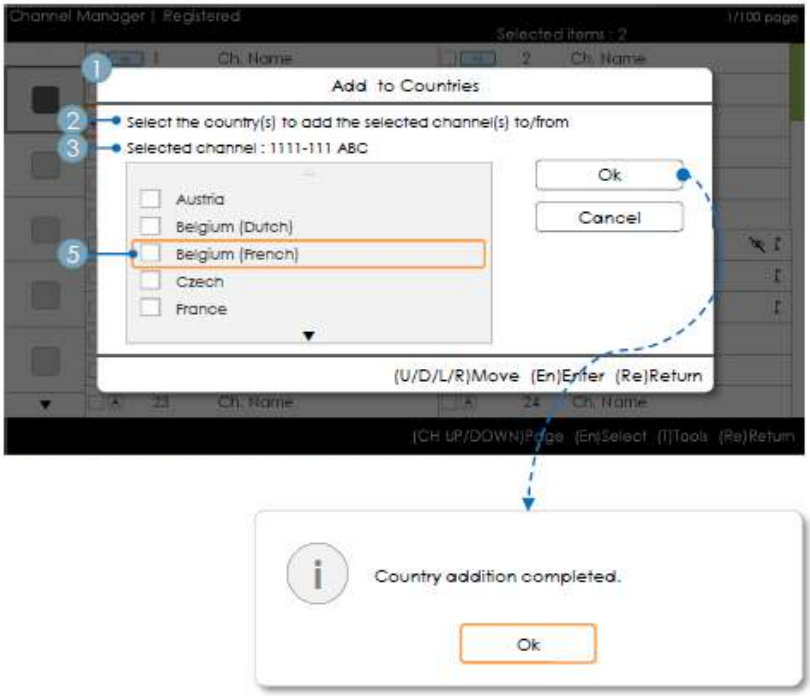
✎ Notes

- This is a component of the Main Frame (Channel Browser).
- The initial highlight is on the channel before entering Factory Mode or the external input.

Elements

No	Name	Description
1	Main Frame	• Shows the channel or the source list of the currently selected category.
2	Scroll Bar	• Shows the position of the current page amongst the total amount of pages.
3	Navigation Help Area	• This is displayed whenever a user enters the Channel Manager. (If a user exits and then reenters the Channel Manager, it is displayed again.) • This disappears when the timeout (5 sec.) is reached or a user presses a key.
4	Navigation Help Area	• The currently configured country information and the RED buttons are left-aligned. (They are displayed and navigated by group graphically.) The key guide is right-aligned.

Add to Countries / Edit Countries (1/2)



Key Guide

Button	Action	Nav. Help
ENTER	Selects the highlighted item.	Enter
RETURN	Cancels and returns to the previous screen (Tools).	Return
▲/▼	Moves the highlight over country items.	Move
◄/►	Moves the highlight.	Move
INFO	N/R	N/R
TOOLS	Closes the current window and displays the 'Tools' menu.	(No Guide)
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

✎ Note.

- This is the definition of Add to Countries.
- The highlighted channel or more than one selected channel is added to the Country category.

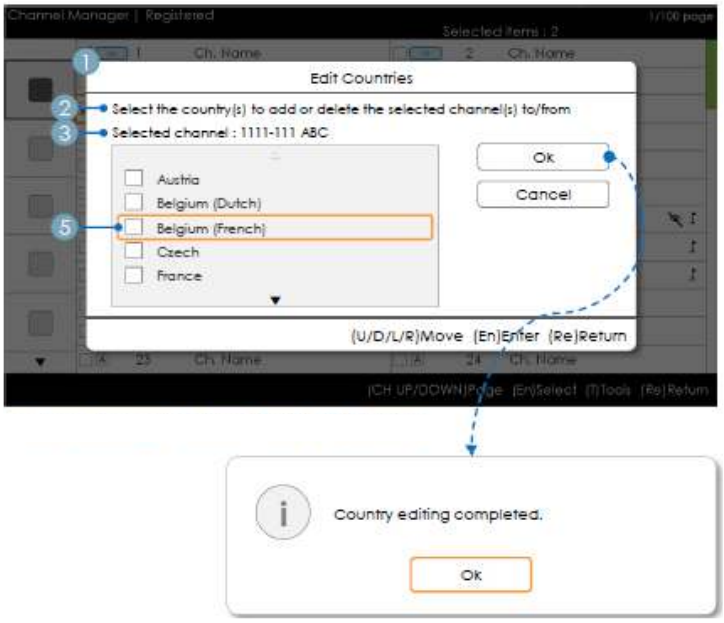
✎ Etc.

- Timeout (60 sec)

Elements

No	Name	Description
1	Add to Countries Window	• If there are no channels that have been registered to the country list in the selected channels, “Add to Countries” is displayed as the title. • A check box is displayed depending on whether the country that was selected when entering the screen is registered or not.
2	Guide	
3	Selection Info	• The number of the selected channel or the channel name. - The channel name is displayed when one channel has been selected: Selected channel: NNNN-NNN ABC - The number of selected channels is displayed when more than one channel has been selected: Selected Channels : N
4	Complete Message	• The message is displayed after the completion of the operation. (This message is always displayed if the OK button is selected.)
5	Selection Mark	• How to identify the meaning of multiple channel selection marks • When all of the items have been registered. • When only part of the items have been registered. • When none of the items have been registered.

Add to Countries / Edit Countries (2/2)



Key Guide

Button	Action	Nav. Help
ENTER	Selects the highlighted item.	Enter
RETURN	Cancels and returns to the previous screen (Tools).	Return
▲/▼	Moves the highlight over country items.	Move
◄/►	Moves the highlight.	Move
INFO	N/R	N/R
TOOLS	Closes the current window and displays the ‘Tools’ menu.	(No Guide)
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

✎ Notes

- This is the definition for Edit Countries.
- The highlighted channel item or more than one selected channel item is added or deleted from the Country category.

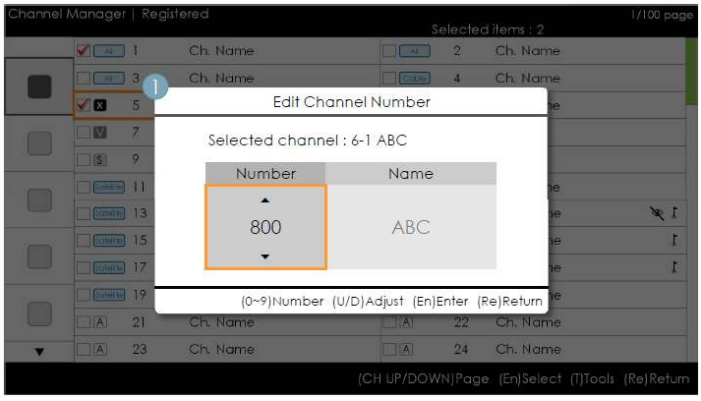
✎ Etc.

- Timeout (60 sec)

Elements

No	Name	Description
1	Add to Countries	• If there is a registered channel among the selected channels, Edit Countries is displayed as the title. • A check box is displayed depending on whether the selected country is registered or not.
2	Guide	
3	Complete Message	• The message is displayed after the completion of the operation. (This message is always displayed if the OK button is selected.)

Edit Channel Number [Swap Type]



• Channel Manager > Browser > Tools > Edit Channel Number

Key Guide

Button	Action	Nav. Help
ENTER	Applies the changes and closes the window.	Enter
RETURN	Cancels and returns to the previous screen (Tools).	Return
▲/▼	Changes the channel number of the selected channel.	Adjust
0~9	Enters a digit.	Number
INFO	N/R	N/R
TOOLS	Closes the current window and displays the 'Tools' menu.	(No Guide)
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

✎ Notes

- This is the definition of the function that changes the channel number (Swap Type).
- Channel numbers can be changed in all channel lists and changes are applied to all channels.
- If the new channel number has not been allocated to another channel, the channel number is updated to the new channel number and the list is sorted again in ascending order of the channel number.
- If the new channel number has already been allocated to another channel, follow the Hotel specifications.

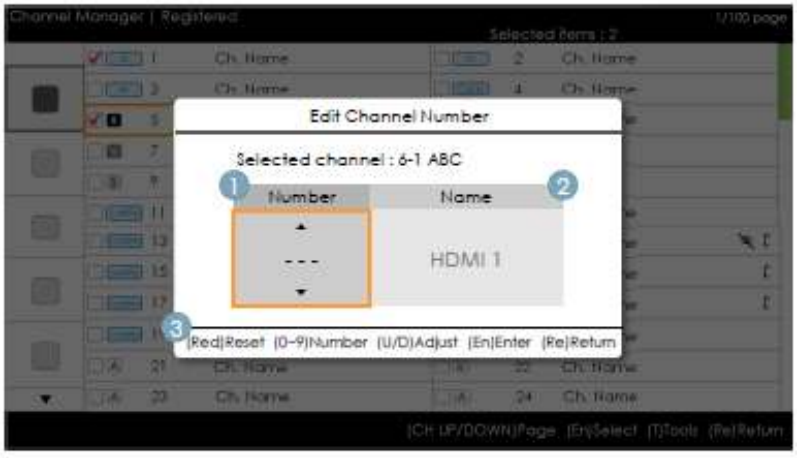
✎ Etc.

- Vertical circulation is supported.

Elements

No	Name	Description
1	Edit Channel Number Window	• Both the numeric keys and the Up/Down keys are supported. – **Selected Channel**: Shows the currently selected channel name. – **Number**: Shows the new channel number. (The currently allocated channel name is also displayed.) – **Name**: Shows the currently allocated channel name. (If there are no channels, it is displayed as "(Empty)".) : If there is a channel but it does not have a name, the name is represented as "-----".
2	Warning Message	• If an already allocated channel is selected – If the new channel number has already been allocated to another channel, the confirmation message pops up. (Refer to the figure below.) – If the user wants to change the channel number to one that has already been allocated to another channel, the channel numbers are swapped and saved.

Edit the Channel Number [External Input] (3/3)



• Channel Manager > Browser > Tools > Edit Channel Number

Key Guide

Button	Action	Nav. Help
RED	If a user presses the button, the channel number is initialized.	Reset
ENTER	Applies the changes and closes the window.	Enter
RETURN	Cancels or returns to the previous screen (Tools).	Return
▲/▼	Changes the channel number of the selected channel.	Adjust
0~9	Enters a digit.	Number
INFO	N/R	N/R
TOOLS	Closes the current window and displays the 'Tools' menu.	(No Guide)
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

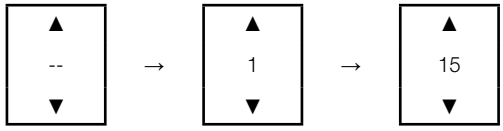
✎ Notes

- This function allocates an external input source to a channel number. (The changes are applied to all channels.)
- If the new channel number has already been allocated to another channel, follow the Hotel specifications.

✎ Etc.

- Default Highlight: The channel number area.
- Vertical circulation is supported.
- Timeout (60 sec)

Elements

No	Name	Description
1	Channel Number Area	• The channel number area. – Both the numeric keys and the Up/Down keys are supported. – If no value is allocated, as many '-' are displayed as the number of digits. 
2	Source Name	• External input name – Items that cannot be configured are disabled.
3	Nav. Help Area	• If a user presses the red button, the channel number is initialized.

Edit Channel Name

• Channel Manager > Browser > Tools > Edit Channel Name

Key Guide

Button	Action	Nav. Help
GREEN	Saves the changes and returns to the Channel Manager.	Done
ENTER	Saves the channel name and moves the cursor to the next field.	Enter
RETURN	Cancels and returns to the previous screen (Tools).	Return
▲/▼/◄/►	Navigates via the keyboard.	Move
0~9	Enters a digit.	(No Guide)
INFO	N/R	N/R
TOOLS	Closes the current window and displays the 'Tools' menu.	(No Guide)
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

✎ Notes

- This is the definition of the keypad that is used for the Edit Channel Name function.

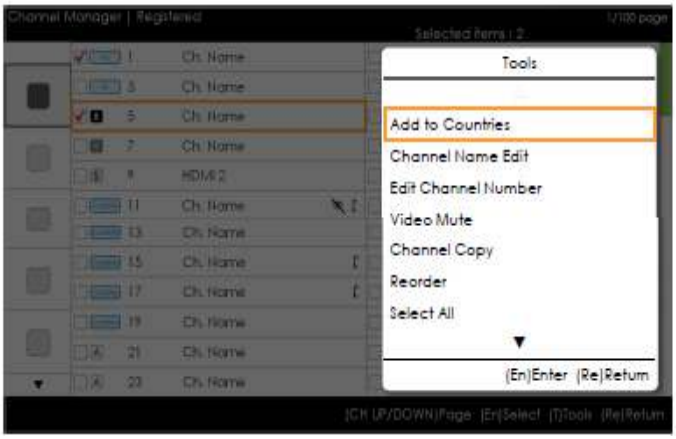
✎ Etc.

- Timeout (60 sec)

Elements

No	Name	Description
1	Channel Name Edit Window	
2	Channel Name	• The cursor and the character currently being entered are in the colour of the highlight. • When the maximum number of characters is reached, the cursor is not displayed.
3	Keyboard	• For a detailed scenario, refer to the keypad design document.

Tools [Edit Mode]

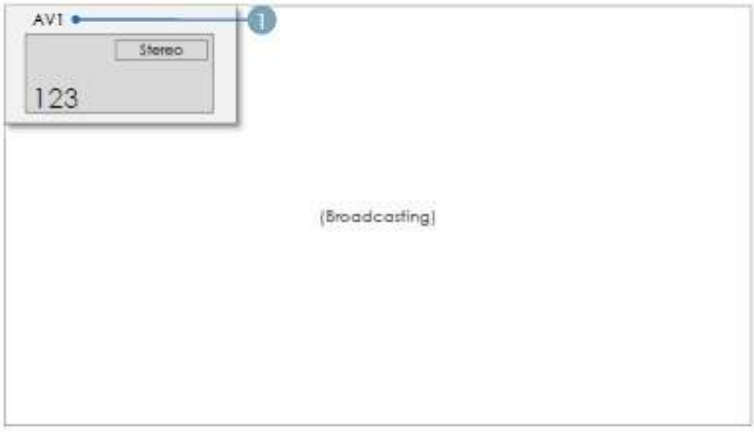


Edit Mode	
Content Highlight (when the number of the checked item is 0 or 1)	When there is more than one checked item.
Add to Countries Edit Countries (when an already-registered item is checked.) Channel Name Edit Edit Channel Number Video Mute Channel Copy (Astra HD +) Reorder (Satellite) Select All Deselect All (this is only displayed when 1 or more items are selected) Delete	Add to Countries Edit Countries (when an already-registered item is checked.) Video Mute Reorder (Satellite) Select All Deselect All Delete

✎ Notes

- This is the definition of the Tools menu.
- The position of the popup menu: The Tools menu for an item in the left column of the Channel List → This is displayed on the right. The Tools menu for an item in the right column of the Channel List → This is displayed on the left.
- If a user presses the Tools button when the highlighted item is not selected, the item is automatically marked as selected.
- For the detailed specifications of each function, refer to the NEO Channel Manager.

CH Banner [when a channel number is allocated to an external input]



✎ Notes

- The TV channel banner specifications are applied.
- When there is an unsupported item or there is no corresponding information, the item values are not displayed.
- The channel name is represented as the ‘external input name’.

Elements

No	Name	Description
1	External Input Name	

The Channel List provides some functions of the GenreTV.

- Country Mode
- Changes the genre mode.

Mixed Channel Map

The Mixed Channel Map function mixes Air, Cable and Satellite channels

- **The Mixed Channel Map function should be ON in order to mix** Air, Cable and Satellite **channels.**
- **Use the Channel Editor to sort the channels after turning on the 'Mixed Channel Map' function in the Hotel Option Menu**

Sound Bar

- **Samsung Sound-Bar & Hospitality TV in 2013**
  - A Samsung Sound-Bar & Hospitality TV supports HDMI 1.4, so you can listen to the TV sound on the Sound-Bar by using a single HDMI cable.
  - Supporting models:
    - Sound-Bar : HW-E350/E450/E550
- **The “Hotel mode” operation from the Sound Bar**
  - The following TV hotel options should be set in advance.
    - Hotel option → Power On → Power ON Volume = "Enable" / Power ON Vol / Max Vol
    - Hotel option → External Device → Sound Bar Out = "On"
  - Connect an HDMI cable from the HDMI OUT port of the Sound-BAR to the HDMI3 port of the hospitality TV.
  - After being connected to the 2013 hospitality TV via an HDMI Cable, the Sound-Bar automatically detects the TV while it turns on, and is converted to “hotel mode” by itself.
  - The change of the power-on volume & max volume on the TV is applied to the connected sound-bar since the TV boots twice .

- **Features of "Hotel MODE" in the Sound-BAR**
  - Synchronized power on/off with the TV.
  - HDMI_CEC enabled.
  - Accessible “HDMI OUT” port only. (Other inputs are disabled)
  - Synchronized “power-on”&“max” volume with the TV. (The Sound-Bar’s volume is set to half that of the TV)
  - Adjustable “power-on”&“max” volume acquired from the TV’s hotel option menu. (Sound-Bar volume=TV volume/2) Ex.) If the volume settings on the TV are “power-on volume=20 and max volume=90”, the Sound bar will work as power-on volume=10, max volume=45.

*This function may differ depending on the model.

Installing the Wall Mount

The wall mount kit (sold separately) allows you to mount the TV onto the wall. For detailed information on installing the wall mount, see the instructions provided with the wall mount. Contact a technician for assistance when installing the wall mount bracket. We do not advise you to do it yourself.

Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you decide to install the TV on your own.

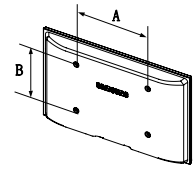
Wall Mount Kit Specifications (VESA)

✎ The Wall mount kit is not supplied but sold separately.

Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.

✎ **NOTE**

- Standard dimensions for wall mount kits are shown in the table below.
- When purchasing our wall mount kit, a detailed installation manual and all all the parts required for the assembly are provided.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws longer than the standard dimension, as they may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not fasten the screws too strongly, as this may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not exceed 15 degrees tilt when mounting this TV.

inches	VESA Spec. (A * B)	Standard Screw	Quantity	
19~22	75 X 75	M4	4	
26~28	100 X 100			
32~42	200 X 200	M8		
46~60	400 X 400			

Do not install your Wall Mount Kit while your TV is turned on. This may result in personal injury due to electric shock.

Securing the TV to the Wall

Caution: Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.

To avoid the TV from falling

1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.

   ✎ You may need additional materials such as anchors depending on the type of wall.

   ✎ Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.

2. Remove the screws from the centre back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.

   ✎ Screws may not be supplied with the product. In this case, please purchase screws with the following specifications.

3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.

   ✎ **NOTE**

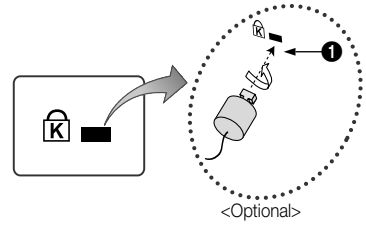
   - Install the TV near to the wall so that it does not fall backwards.
   - It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
   - Untie the string before moving the TV.

4. Verify that all connections are properly secured. Periodically check the connections or any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.

Anti-theft Kensington Lock

The Kensington Lock is not supplied by Samsung. It is a device used to physically secure the system when using it in a public place. The appearance and locking method may differ from the illustration depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on its proper use.

To lock the product, follow these steps:



✎ Please find the "🔒" icon at the back of the TV. A kensington slot is next to the "🔒" icon.

1. Wrap the Kensington lock cable around a large, stationary object such as desk or chair.
2. Slide the end of the cable with the lock attached through the looped end of the Kensington lock cable.
3. Insert the locking device into the Kensington slot on the product (❶).
4. Lock the lock.

✎ These are general instructions. For exact instructions, see the User Manual supplied with the locking device.

✎ The locking device has to be purchased separately.

✎ The location of the Kensington Lock may differ depending on its model.

Specifications

Items		Specifications	Comment
TV System		PAL, SECAM, DVB-TC, DVB-T2CS2	
Audio out	Speaker out	28inch : 5W x 2	
		32inch / 39inch / 42inch / 46inch : 10W x 2	
	Variable Audio	4W mono 8 ohm SPK'	Phone Jack output BTL Sound output
	Digital audio out	Optical	
Input	Component	Y, Pb, Pr, Audio-L/R	
	PC	D-sub, Audio-L/R	
	A/V	Audio Video Jack	
	EXT	Scart Jack	
	HDMI	Compatible with the HDMI Specifications	
	Antenna	75 ohm Unbalanced, Din Jack , F Jack	
Data	DATA	RJ-12	
	RJP	RS232	Jack Pack Only, TeleAdapt RJP Only
Operating temperature		10°C ~ 40°C (50°F ~ 104°F)	
Operating Humidity		10% ~ 80%	non-condensing
Storage Temperature		-20°C ~ 45°C (-4°F ~ 113°F)	
Storage Humidity		5% ~ 95%	non-condensing

✎ Design and specifications are subject to change without prior notice.

✎ For information about the power supply, and more information about the power consumption, refer to the label attached to the product.

✎ The above specifications may differ depending on the model.

HDMI The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Supported Video Formats

File Extention	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi / *.mkv *.asf / *.wmv *.mp4 / *.3gp *.vro / *.mpg *.mpeg / *.ts *.tp / *.trp *.mov / *.flv *.vob / *.svi *.divx	AVI MKV ASF MP4 3GP MOV FLV VRO VOB PS TS	DivX 3.11/4.x/5.x/6.x	1920 x 1080	6~30	30	AC3 LPCM ADPCM (IMA, MS) AAC HE-AAC WMA DD+ MPEG (MP3) DTS (Core) G.711(A-Law, µ-Law)
		MPEG4 SP/ASP				
		H.264 BP/MP/HP				
		Motion JPEG	640 x 480		8	
		Window Media Video v9	1920 x 1080		30	
		MPEG2				
		MPEG1				
*.webm	WebM	VP8			20	Vorbis

✎ Other Restrictions

- Video content will not play, or not play correctly, if there is an error in the content or the container.
- Sound or video may not work if the contents have a standard bit rate/frame rate above the compatible Frame/sec listed in the table.
- If the Index Table is in error, the Seek (Jump) function is not supported.
- Some USB/digital camera devices may not be compatible with the player.
- The menu can be displayed late if the video is over 10Mbps(bit rate).

Video decoder	Audio decoder
• Supports up to H.264, Level 4.1 (FMO/ASO/RS are not supported.) • frame rate : - Below 1280 x 720: 60 frame max - Above 1280 x 720: 30 frame max • VC1 AP L4 is not supported. • GMC 2 or higher is not supported.	• WMA 10 Pro supports up to 5.1 channel and M2 profile. • WMA lossless audio is not supported. • Vorbis supports up to 2ch. • DD+ supports up to 5.1 channel.

Supported Subtitle Formats

• External

Name	File extension
MPEG-4 timed text	.ttxt
SAMI	.smi
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass
Powerdivx	.psb

• Internal

Name	Container	Format
Xsub	AVI	Picture Format
SubStation Alpha	MKV	Text Format
Advanced SubStation Alpha	MKV	Text Format
SubRip	MKV	Text Format
MPEG-4 Timed text	MP4	Text Format

Supported Photo Formats

File Extension	Type	Resolution
*.jpg *.jpeg	JPEG	15360 X 8640
*.bmp	BMP	4096 X 4096
*.mpo	MPO	15360 X 8640

✎ The MPO type file does not support Zoom, Rotate and Slide Show Effect functions.

Supported Music Formats

File Extension	Type	Codec	Remark
*.mp3	MPEG	MPEG1 Audio Layer 3	
*.m4a *.mpa *.aac	MPEG4	AAC	
*.flac	FLAC	FLAC	Supports up to 2ch.
*.ogg	OGG	Vorbis	Supports up to 2ch.
*.wma	WMA	WMA	WMA 10 Pro supports up to 5.1 channel and M2 profile. (WMA lossless audio is not supported.)
*.wav	wav	wav	
*.mid *.midi	midi	midi	type 0 and type 1

Contact SAMSUNG WORLDWIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Country	Customer Care Centre	Web Site
ALBANIA	42 27 5755	www.samsung.com
AUSTRIA	0810 - SAMSUNG (7267864, € 0.07/min)	www.samsung.com
BELGIUM	02-201-24-18	www.samsung.com/be (Dutch) www.samsung.com/be_fr (French)
BOSNIA	05 133 1999	www.samsung.com
BULGARIA	07001 33 11	www.samsung.com
CROATIA	062 SAMSUNG (062 726 7864)	www.samsung.com
CZECH	800 - SAMSUNG (800-726786)	www.samsung.com
	Samsung Electronics Czech and Slovak, s.r.o., Oasis Florenc, Sokolovská 394/17, 180 00, Praha 8	
DENMARK	70 70 19 70	www.samsung.com
FINLAND	030 - 6227 515	www.samsung.com
FRANCE	01 48 63 00 00	www.samsung.com
GERMANY	01805 - SAMSUNG (726-7864 € 0,14/Min)	www.samsung.com
CYPRUS	From landline : 8009 4000	www.samsung.com
GREECE	From landline : 80111-SAMSUNG (7267864) From landline & mobile : (+30) 210 6897691	www.samsung.com
HUNGARY	06-80-SAMSUNG(726-7864)	www.samsung.com
ITALIA	800-SAMSUNG(726-7864)	www.samsung.com
KOSOVO	+381 0113216899	www.samsung.com
LUXEMBURG	261 03 710	www.samsung.com
MACEDONIA	023 207 777	www.samsung.com
MONTENEGRO	020 405 888	www.samsung.com
NETHERLANDS	0900-SAMSUNG (0900-7267864) (€ 0,10/Min)	www.samsung.com
NORWAY	815-56 480	www.samsung.com
POLAND	0 801-1SAMSUNG(172-678) +48 22 607-93-33	www.samsung.com
PORTUGAL	808 20-SAMSUNG (808 20 7267)	www.samsung.com
RUMANIA	From landline : 08010-SAMSUNG (7267864) From landline & mobile : (+40) 21 206 01 10	www.samsung.com
SERBIA	0700 Samsung (0700 726 7864)	www.samsung.com
SLOVAKIA	0800 - SAMSUNG (0800-726 786)	www.samsung.com/sk
SPAIN	902 - 1 - SAMSUNG (902 172 678)	www.samsung.com
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